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of Transportation

**Maritime
Administration**

Upper Mississippi River Basin Commission Master Plan Terminal Capacity Analysis

Water Transportation Network Task X.A.2.b

Maritime Administration
U.S. Department of Transportation
September, 1981

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Upper Mississippi River Basin Commission Master Plan Terminal Capacity Analysis

Water Transportation Network Task X.A.2.b

Prepared by
Office of Port and Intermodal
Development
Maritime Administration
U.S. Department of Transportation
September, 1981

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CHAPTER 1

INTRODUCTION

The particular analysis undertaken in this Water Transportation Network study represents a major input to Element X of the Plan of Study dated August 15, 1979. The aim of this study is to develop an accurate inventory of transfer facilities on the Upper Mississippi River System, as well as to determine their handling capacities by commodity and river pool.

The work of the task has been carried out under the jurisdiction and guidance of the Navigation/Transportation Work Team. Close management liaison continued throughout the project with the Work Team representatives from the States of Illinois and Minnesota. The assistance of their representatives guided and enhanced the project results.

The study work tasks included:

1. An extensive and detailed update of the cargo facility inventory of the Upper Mississippi River System developed by the Mid-America Ports Study followed by the production of new inventory tapes, printed records and tables, a documented program, and this report.

2. A grouping of facilities by river pool, river bank, and state.

3. An estimate of aggregated capacity by commodity groupings of the transfer facilities in each pool.

4. A comparison of pool capacities with historic and forecast commodity transfers by pool with an indication of the places and times at which capacity constraints may occur.

The study provides a profile of transfer capabilities and anticipated capacity limitations to handling the projected future growth.

The 1979 Mid-America Ports Study (MAPS) provided the initial detailed inventory. The Maritime Administration (MarAD) has continued to maintain this inventory. The study also provided the computer program for transfer and storage capacity estimation.

Study Approach:

Significant portions of the task work - that related to the functioning facilities - depended on the MarAd Facility Inventory. Information contained therein was reviewed and the terminals reinventoried. The MarAd inventory was sorted on a pool-by-pool basis. The technique of capacity estimation was refined and applied to the terminal groups.

Work related to the inventory and capacities of terminals was carried out by staffs of MarAd Headquarters and Central Region. These efforts were augmented by selected contractors. Steps necessary to the refinement of the terminal inventory were carried out with assistance and review of the representatives of the Illinois and Minnesota Departments of Transportation. Those steps of the study which provided commodity flows and forecasts were carried out in cooperation with the U.S. Army Corps of Engineers, North Central Division.

The two study segments, the inventory process and the capacity estimation, were carried out in separate stages. Contractors were engaged to complete the inventory. Contracts for this effort were signed in December, 1980, and their work was completed by March 1981. MarAd processed the new and correcting data into computer tape form which was ready in early April. Both public and private terminal facilities appear on the tape.

The capacity estimation process made use of the Mid-America Ports Study computer programs. The corrected facility inventory tape was furnished to a contractor in April, 1981. That contractor produced all estimates of terminal capacities. The Maritime Administration staff compared the terminal capacity estimates which were organized by pool, river bank, and commodity with the commodity forecasts provided by the Corps of Engineers. These forecasts are presented in the Master Plan Report: Navigation and Carrying Capacity Analysis, Appendix F.

Management:

Prime management responsibility for this study was assigned to the MarAd Central Region Office where Mr. John W. Carnes served as Principal Investigator and Contracting Officer's Technical Representative. He was assisted by Mr. William W. Dean of the MarAd Headquarters Office. Mr. James R. Carman, of MarAd Headquarters, acted as Project Manager and fiscal representative for the project.

Mr. James A. Johnson, representative of the State of Illinois and Mr. M. William Newstrand, representative of the State of Minnesota served as task coordinators on behalf of the Master Plan Navigation/Transportation Work Team.

DELIVERABLES:

This study produced the following deliverables:

1. An updated inventory of terminal facilities provided to the Upper Mississippi River Basin Commission in hard copy form and available in computer tape form at MarAd. The hard copy form displays:
   - State Alphabetic listing (active and inactive terminal facilities); and

- River Mile listing of terminal facilities sub-grouped by pool and bank, State, and commodities.

2. A revised estimate of terminal capacity in hard copy form. The report provides capacities by pool, bank, and commodity.

3. A documented terminal capacity analysis program available at MarAd for future study efforts upon request.

4. A final report which describes the study products.

CHAPTER 2

PORT FACILITIES INVENTORY AND RIVER SEGMENTS

The first step in determining the potential constraints imposed on the Upper Mississippi River System by the cargo handling activities within each river pool was to inventory the river terminals located within the system.

The MarAd Port Facility Inventory (PFI) was used as the primary source of facility data for this study. The inland waterway segment of the PFI system was developed during the Mid-America Ports Study conducted by MarAd in 1977-1979. Using this as the starting point, a survey was conducted to verify the facility information contained in the PFI system as well as record any new facilities or changes which have occurred subsequent to the original survey. The type of terminal facilities inventoried was limited to those publicly and privately owned facilities which were actively engaged in handling cargo.

The survey identified 407 terminals in the five state area of the Upper Mississippi River Basin. Table 1 shows the number of the terminals in each of the five states.

TABLE 1 NUMBER OF ACTIVE TERMINALS BY STATE

Minnesota	62
Wisconsin	15
Iowa	56
Illinois	212
Missouri	62
Total	407

In analyzing the possible impact of the river terminal capacity on the overall capacity of the Upper Mississippi, the terminal capacity in each river pool was used to compare with current and projected commodity movements. A river pool is the body of water created up stream of a lock and dam on the river.

The Upper Mississippi River System consists of the Upper Mississippi River, its navigable tributaries, and the Illinois Waterway, see Figure 1. For the purpose of this study the Upper and Lower St. Anthony pools were combined with Pool 1 as one segment. Seven other segments were created to provide a more detailed analysis of the terminal capacity of the system. These river segments included the tributaries and unlocked portions of the Mississippi River, and one segment that overlapped the Upper Mississippi River and Illinois Waterway. Specifically, the unlocked portion of the Upper Mississippi was divided into two segments (28 and 29). The Illinois Waterway between Grafton, Illinois and LaGrange was designated as a segment (41), although it is actually part of pool 26. Finally, the four navigable tributaries of the Upper Mississippi (Minnesota, St. Croix, Black and Kaskasia rivers) were each designated as a separate segment (30, 31, 32 and 33). Table 2 defines the boundaries of the river segments used in this study and shows the number of terminals located within each segment. A complete listing of the terminals by river segment along with pertinent data about each terminal is given in Appendix A.

Figure 1 UPPER MISSISSIPPI RIVER SYSTEM

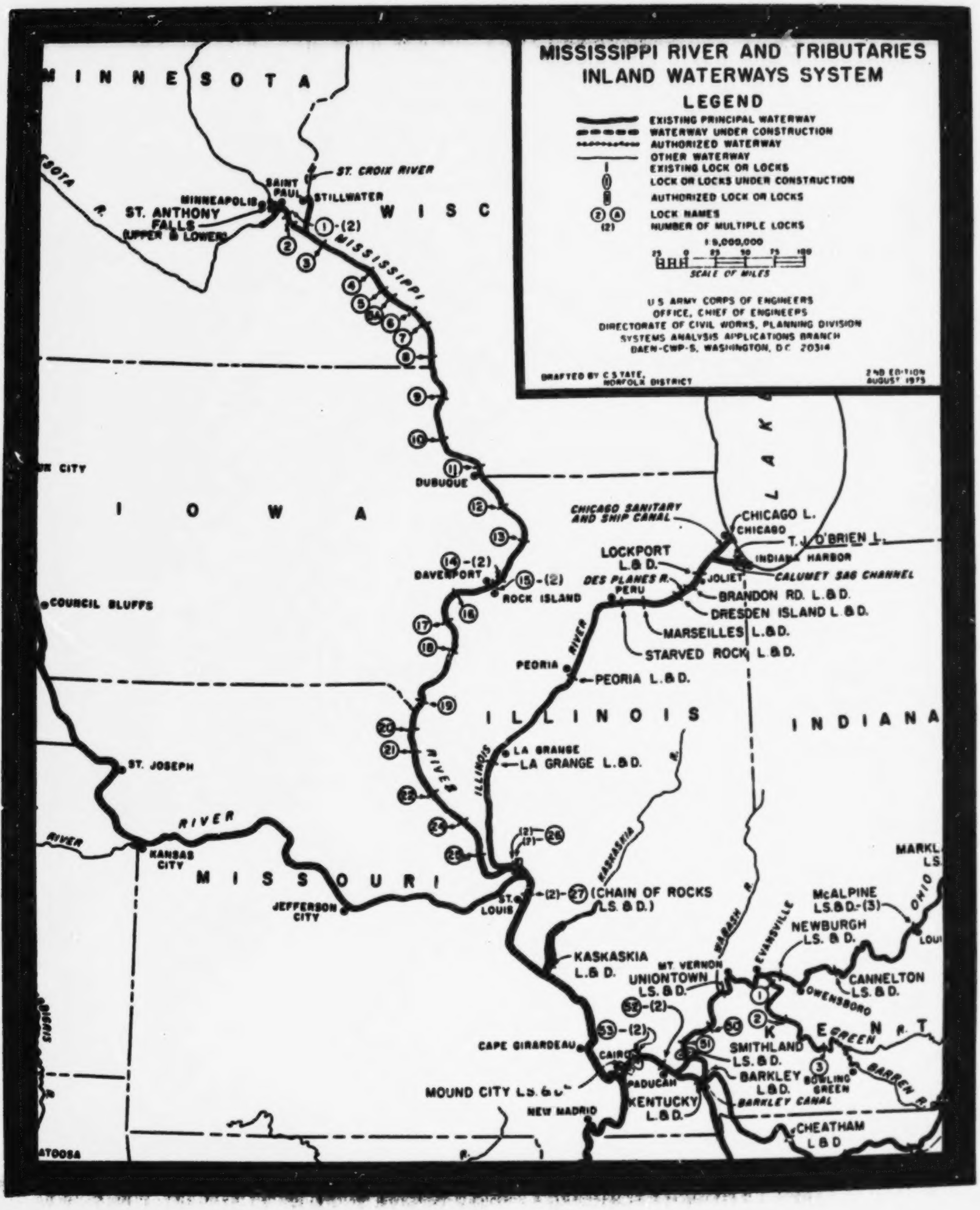
MISSISSIPPI RIVER AND TRIBUTARIES
INLAND WATERWAYS SYSTEM
LEGEND
EXISTING PRINCIPAL WATERWAY
WATERWAY UNDER CONSTRUCTION
AUTHORIZED WATERWAY
OTHER WATERWAY
EXISTING LOCK OR LOCKS
LOCK OR LOCKS UNDER CONSTRUCTION
AUTHORIZED LOCK OR LOCKS
② Ⓐ LOCK NAMES
(2) NUMBER OF MULTIPLE LOCKS
1:5,000,000
25 0 25 50 75 100
SCALE OF MILES
U.S. ARMY CORPS OF ENGINEERS
OFFICE, CHIEF OF ENGINEERS
DIRECTORATE OF CIVIL WORKS, PLANNING DIVISION
SYSTEMS ANALYSIS APPLICATIONS BRANCH
DAEN-CWP-S, WASHINGTON, D.C. 20314
DRAFTED BY C.S. TATE, NORFOLK DISTRICT
2ND EDITION AUGUST 1975
MINNESOTA
WISC
IOWA
ILLINOIS
INDIANA
MISSOURI
K E N T
LAKE
ST. CROIX RIVER
SAINT PAUL
STILLWATER
MINNEAPOLIS
ST. ANTHONY FALLS (UPPER & LOWER)
MISSISSIPPI
RIVER
①-(2)
②
③
④
⑤
5A
⑥
⑦
⑧
⑨
⑩
⑪
DUBUQUE
⑫
⑬
⑭-(2)
DAVENPORT
⑮-(2)
ROCK ISLAND
⑯
⑰
⑱
⑲
⑳
㉑
㉒
㉔
㉕
(2)-㉖
(2)
ST. LOUIS
(2)-㉗ (CHAIN OF ROCKS LS. & D.)
COUNCIL BLUFFS
ST. JOSEPH
KANSAS CITY
JEFFERSON CITY
CHICAGO SANITARY AND SHIP CANAL
CHICAGO L.
CHICAGO
T. J. O'BRIEN L.
INDIANA HARBOR
CALUMET SAG CHANNEL
LOCKPORT L. & D.
DES PLAINES R.
JOLIET
BRANDON RD. L. & D.
DRESDEN ISLAND L. & D.
PERU
MARSEILLES L. & D.
STARVED ROCK L. & D.
PEORIA
PEORIA L. & D.
ILLINOIS RIVER
LA GRANGE
LA GRANGE L. & D.
KASKASKIA
KASKASKIA L. & D.
WABASH R.
EVANSVILLE
MT. VERNON
UNIONTOWN LS. & D.
MARKL LS
McALPINE LS. & D.-(3)
OHIO
LOUI
NEWBURGH LS. & D.
CANNELTON LS. & D.
OWENSBORO
①
②
③
GREEN R.
BARREN R.
BOWLING GREEN
㊿
(51)
SMITHLAND LS. & D.
(52)-(2)
(53)-(2)
CAPE GIRARDEAU
CAIRO
PADUCAH
MOUND CITY LS. & D.
BARKLEY L. & D.
BARKLEY CANAL
KENTUCKY L. & D.
NEW MADRID
CHEATHAM L. & D.
R.

TABLE 2

UPPER MISSISSIPPI RIVER SYSTEM - RIVER SEGMENTS

Segment Number	Pool Number	Terminals	River Name	Mile (Lower End of Segment)
1	1	10	MISSISSIPPI	847.6
2	2	31	MISSISSIPPI	815.2
3	3	2	MISSISSIPPI	796.9
4	4	4	MISSISSIPPI	752.8
5	5	1	MISSISSIPPI	738.1
5A	5A	0	MISSISSIPPI	728.5
6	6	8	MISSISSIPPI	714.3
7	7	0	MISSISSIPPI	702.5
8	8	3	MISSISSIPPI	679.2
9	9	2	MISSISSIPPI	647.9
10	10	4	MISSISSIPPI	615.1
11	11	2	MISSISSIPPI	583.0
12	12	10	MISSISSIPPI	556.7
13	13	0	MISSISSIPPI	522.5
14	14	10	MISSISSIPPI	493.3
15	15	11	MISSISSIPPI	482.9
16	16	9	MISSISSIPPI	457.2
17	17	7	MISSISSIPPI	437.1
18	18	3	MISSISSIPPI	410.5
19	19	14	MISSISSIPPI	364.2
20	20	4	MISSISSIPPI	343.2
21	21	4	MISSISSIPPI	324.9
22	22	7	MISSISSIPPI	301.2
24	24	1	MISSISSIPPI	273.4
25	25	0	MISSISSIPPI	241.4
26	26	8	MISSISSIPPI	202.9
27	27	10	MISSISSIPPI	185.3
28	**	43	MISSISSIPPI	117.5 (Junction with Kaskasia)
29	**	19	MISSISSIPPI	0.0 (Cairo)
30	2**	7	MINNESOTA	0.0 (Joins the Mississippi at Miss. Mile 8[illegible]1.0
31	3**	1	ST. CROIX	0.0 (Joins the Mississippi at Miss. Mile 811.3
32	8**	5	BLACK	0.0 (Joins the Mississippi at Miss. Mile 698.2
33	KASKASKIA	1	KASKASKIA	0.0 (Joins the Mississippi at Miss. Mile 117.5
34	Lockport	60	ILLINOIS WATERWAY	291.1
35	Brandon Road	2	ILLINOIS WATERWAY	285.9
36	Dresden Island	8	ILLINOIS WATERWAY	271.5
37	Marseilles	18	ILLINOIS WATERWAY	244 6
38	Starved Rock	6	ILLINOIS WATERWAY	231.0
39	Peoria	36	ILLINOIS WATERWAY	157.7
40	La Grange	25	ILLINOIS WATERWAY	80.2
41	26**	11	ILLINOIS WATERWAY	0.0

* Pool 1 includes the Upper and Lower St. Anthony pools and Pool 1.
**Refer to Page 6 for discussion of these waterway segments.

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CHAPTER 3

TERMINAL CAPACITY ESTIMATION METHODOLOGY

This section describes the methodology used to estimate the cargo handling capacities of the Upper Mississippi River System terminal facilities.

Cargo handling capacities by cargo type were estimated by river pool for the terminals contained in the Port Facility Inventory. Barge loading and barge unloading capacities were calculated separately for each terminal facility by cargo type.

First, existing cargo handling capacities were estimated individually for each inventoried facility; these capacities were then aggregated by commodity on a river pool basis to facilitate the comparison with the commerce forecasts, which were also prepared on the same basis.

The calculation of capacity involved the use of:

- physical and operational data from the MarAd facility inventory; and
- additional data developed through interviews with terminal operators during the Mid-America Ports Study.

THE OPERATIONAL PRACTICES SURVEY

The operational practices survey was conducted during the Mid-America Ports Study. This information was applied to the Upper Mississippi River Master Plan Study since the same capacity methodology was used. The MAPS survey included terminals located in the study area.

In conducting the operational practices survey for MAPS, the consultant visited over 70 terminal facilities and local port planning and development agencies.

Data collected from the operators for use in the capacity equations included information on:

- Cargo Peaking;
- Working Hours;
- Berth Utilization;
- Storage Space;
- Transshipment and storage time; and
- Proportion of cargoes directly transshipped.

The above factors vary significantly from commodity to commodity and from state to state.

CAPACITY METHODOLOGY AND EQUATIONS

The calculation of the physical capacity of a transportation facility is meaningful only when presented in terms of the level of service provided.

A distinction must be made between a physical capacity or the maximum volume that could be physically accommodated, and a working capacity which represents the volume that can ordinarily be handled under normal conditions. A terminal facility may operate, for example, on an eight-hour day five-day week schedule. Although, the capacity could be tripled by operating on a 24-hour basis, the likelihood of such an operation is dependent upon such factors as the type of facility, the type of cargo moved, and the economics of the operation.

The following sections describe the application of the terminal capacity equations developed in MAPS.

Vessel To Dock Transfer Capacity

The annual vessel to dock throughput capacity may be expressed as:

$C_B = H \times G \times W \times B \times P \times Q \times R$, where

C_B = Annual vessel to dock transfer capacity, Short Tons (ST)
H = Average cargo handling rate per hour per unit of handling equipment (ST/hour)
G = Number of units of handling equipment per berth
W = Number of working hours per year
B = Number of berths at which loading/unloading operations may be carried out at any given time
P = Practical berth occupancy (%)
Q = Cargo Peaking Factor (%)
R = Working Handling Rate divided by rated equipment capacity

Since barge loading and barge unloading rates vary significantly for dry bulks, liquid bulks and grains, the vessel to dock transfer capacity for loading and unloading these cargoes were estimated separately. Loading and unloading rates for calculation of general cargo capacity were assumed to be equal.

Carog Handling Rates (H)

For all dry bulks, liquid bulks and grains, average hourly handling rates were taken from the loading and unloading rates indicated on the MarAd inventory form.

The indicated rated equipment capacities were reduced by the factor "R" to derive average "working" handling rates. In addition, where the units are shown in long tons, 1000's of barrels, and 1000's of bushels for dry bulk, liquid bulk and grains, respectively, they were converted to short tons to facilitate comparison with the Corps of Engineers' commodity forecast.

For the various commodity groups that comprise the general cargo category, estimates are made of hourly handling rates through information obtained from the interviews of terminal operators and through judgment and experience. Average hourly handling rates were estimated as 100 tons per hour for wood and wood products; 75 tons per hour for iron and steel products; 60 tons per hour for scrap metals; and 25 tons per hour for other general cargo.

Number of Units of Handling Equipment Per Berth (G)

It was assumed that only one piece of loading or unloading equipment per barge will be used.

Number of Working Hours Per Year (W)

The annual number of working hours per year shown in Table 3 were used in the capacity estimates. While it is recognized that working hours may vary considerably both among and within commodity groups, it was judged that these values are valid representations of average operating conditions in this region.

In estimating annual working hours, the number of days lost through the impact of adverse environmental conditions such as extreme fog or icing were estimated for each state.

The number of working days lost due to river current or river stage were taken directly from the inventory form for each terminal.

Number of Berths (B)

The number of berths that can operate at any given time is dependent upon the number of pieces of handling equipment available to load or discharge cargo, The number of units of handling equipment available were determined directly from the MarAd inventory forms.

Practical Berth Occupancy (P)

It would be impractical for a terminal to operate at 100 percent berth occupancy inasmuch as excessive, unacceptable delays to waiting barges would result. Diversion to competing facilities, where feasible, should occur before the delay levels associated with 100 percent occupancy would occur.

Practical berth occupancy may be defined, then, as the level of occupancy beyond which diversion to competing facilities will occur due to the delays imposed upon waiting vessels or tows. In the absence of competing facilities, practical berth occupancy may be viewed in economic terms as the occupancy level above which the cost of delay time for waiting barges exceeds the cost of upgrading the facility under consideration.

Determination of the practical delay level involves a judgment estimation after consideration of factors such as the value of time to tows and cargo, and availability of alternative facilities. Since barge transportation generally involves low cost per ton cargoes, relatively high berth occupancy rates were used. For purpose of this study, practical berth occupancy has been estimated to be the occupancy rate above which the average daily time for a barge would be double the average service time, or the time required to load or unload the barge. Utilizing a random arrival pattern for tows, the practical berth occupancies for barge berths would be as follows:

Number of Berths	Practical Berth Occupancy
1	67%
2	82%
3	87%
4	90%
5	96%

Cargo Peaking Factor (Q)

The cargo peaking factor is included to reflect the fact that cargo flows vary throughout the year and terminals should have adequate capacity to handle peak monthly flows. The effective capacity of the terminal is limited by this peaking because the capacity to handle peak demands will be under utilized during periods of lesser activity. The peaking factor is defined as:

$$\frac{\text{Average Monthly Cargo Flows}}{\text{Peak Monthly Cargo Flows}}$$

As shown in Table 3, average peaking factors were estimated at 0.95 for general cargoes, .90 for solid bulks (except grain and coal), .75 for liquid bulks, and .50 for grain and coal respectively.

Terminal Storage Capacity

The annual storage capacity of a terminal may be expressed as:

$$C_S = \frac{365 \times A \times Q}{L \times D \times Y}, \text{ where}$$

C_S = Annual throughput capacity of the storage facilities (ST)

A = Net storage area (ft^2)

L = Average area required to store one unit of cargo (ft^2/unit)

D = Average cargo dwell time (days)

Y = Proportion of total throughput cargo using storage area

Q = Cargo peaking factor

The net storage area (A) divided by the average area required to store one unit of cargo (L) is the amount of cargo that can be stored at any instant. For dry bulks, liquid bulks and grains, the instantaneous storage capacities, in units of 1,000's of long tons, 1,000's of barrels and 1,000's of bushels, respectively, are indicated directly on the MarAd inventory form. Therefore, in the explanation of these terms which follow, these two factors, "A" and "L", are not discussed for dry bulks, liquid bulks and grains.

Net Storage Area (A)

For each terminal that handles general cargo, inside storage and yard storage are shown on the MarAd inventory form in units of 1,000's of ft^2 and acres, respectively.

The areas indicated on the inventory form were reduced by 20 percent to account for "storage" space that is used for aisles and other space not used for actual placement of cargo.

Average Area Per Unit of Cargo (L)

Area requirements per unit of cargo are a function of practical cargo stacking heights and the density of cargo being stored. Cargo stacking heights are available from the MarAd inventory and, for a given mix of cargo, average cargo density may be determined.

Average space per short ton of cargo stored was estimated at 7.5 ft^2 for general cargo and 4.5 ft^2 for project cargo. Project cargoes are defined as any item which requires individual handling due to reasons of size, weight, shape or density. Unlike general cargoes which are bound together or to a pallet, project cargoes are oversized individual or separate items, equipment and component parts that are generally too large for truck hauls and may require specialized railroad equipment for shipment.

Average Cargo Dwell Time (D)

Average dwell time is the average number of days that the cargo stays in the terminal. Estimates of average storage times for the various commodity groups vary significantly throughout the study area. The values used are summarized in Table 3.

Proportion of Cargo Requiring Storage (Y)

A percentage of the cargo passing through a terminal moves directly to or from the barge from or to inland transportation; it was estimated that the percentage of cargo requiring storage ranges from 35 percent for grain being loaded to 95 percent for general cargoes.

Cargo Peaking Factors (Q)

See Reference to Cargo Peaking Factor on page 14.

For each terminal facility, the annual vessel to dock transfer and cargo storage capacities were estimated in accordance with the procedures and factors described above. These individual terminal capacities were aggregated on a segment basis for each of the commodity groups.

The annual capacity of a terminal facility is the limiting capacity of the lower of either the storage or berth transfer capacity. The average of dock and storage capacity was considered a reasonable representation of facility capacity inasmuch as average and not exact factors were used in the calculations; any one facility's operational characteristics may depart significantly from the figures used in the equations. In instances in which zero storage capacity was indicated on the inventory form, the berth transfer capacity was taken as the basis for computing facility capacity.

The terminal capacity of several direct transfer facilities for grain and sand, gravel and other non-metallic minerals on the Illinois Waterway had to be adjusted outside the framework of the capacity methodology. The manner in which the capacity was adjusted is explained in Chapter 6.

Storage and berth transfer information may be input on the inventory form for up to four categories of commodities - general cargo, dry bulk, liquid bulk, and grains. In cases where more than one liquid bulk or dry bulk commodity was handled at one terminal, it was necessary to divide the calculated capacity among the commodities.

TABLE 3

FACTORS FOR FACILITY CAPACITY EQUATIONS

	W Availability (Hours/Yr.)	Q Peaking Factor Avg. Month Tonnage/ Peak Mo. Tonnage		D Storage Dwell Time (Days)		Y Percent Cargo Requiring Storage of Total Cargo Handled (%)		R Practical Handling Rate / Rated Equipment Capacity	
		Load	Unload	Load	Unload	Load	Unload	Load	Unload
General Cargo	3700	.95	.95	30	30	.90	.90	.90	.90
Solid Bulk	5000	.90	.90	30	70	.85	.85	.85	.70
Liquid Bulk	6000	.75	.75	20	70	.95	.95	.90	.90
Grain	3000	.50	.50	30	20	.35	.75	.85	.70
Coal and Coke	5000	.50	.50	5	60	.85	.85	.85	.70

Source: *Mid-America Ports Study*
Maritime Administration

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CHAPTER 4

COMMODITY CLASSIFICATION

Before discussing the actual terminal capacities of each river pool, it is necessary to explain the relationship between the commodity classifications used in this study.

The commodity groups used in the capacity methodology are based on the Corps of Engineers groups used in the Master Plan. The 14 Corps of Engineers commodity groups were aggregated into 11 groups for capacity evaluation on this study. Table 4 presents the 11 groups used in the capacity methodology.

In order to compare the Corps' commodity data with the terminal capacity estimates, the following Corps of Engineers projection groups were combined:

Groups 1 and 6 - Farm Products/Food and Kindred Products.
Groups 5 and 11 - Non-metallic minerals/Stone, clay, etc.
Groups 7 and 8 - Lumber and Wood Products/Pulp, Paper, etc.

TABLE 4 CAPACITY/COMMODITY GROUP INDEX

Commodity Description	COE Commodity Projection Group*	Capacity Commodity Group**
Farm Products/Food and Kindred Products	1 & 6	1, 9, & 11
Metallic Ores	2	2 & 3
Coal	3	4
Crude Petroleum	4	5
Sand, Gravel and Other Non-metallic Minerals	5 & 11	15,16,19, & 20
Lumber and Wood Products/ Pulp, Paper, and Allied Products	7 & 8	10
Chemicals	9	7 & 8
Petroleum and Coal Products	10	6 & LPG
Primary Metal Products	12	12
Waste and Scrap	13	14
Other	14	13,17, & 18

*For the specific commodities included in each group see the COE report, Navigation and Carrying Capacity Analysis.

**Mid-America Ports Study, Maritime Administration.

CHAPTER 5

TERMINAL CAPACITY ESTIMATES BY RIVER SEGMENT

Using the techniques described in the preceding chapters, the existing terminal capacity for each of the 41 river segments (see Table 2) is estimated.

Table 5 shows the terminal capacity for the Upper Mississippi River System by commodity and state. The total estimated capacity for the system is 515,483,000 short tons. This figure includes the capacity calculated by the capacity estimation program of 473,739,000 tons plus 41,744,000 tons of capacity associated with the direct transfer operations at several grain and non-metallic mineral facilities which indicated no storage capability. The latter capacity figure consists of 29,787,000 tons for grain and 11,957,000 tons for non-metallic minerals.

Tables 6 through 16 compare terminal capacity against actual and projected commodity flows by commodity and river pool. These tables are discussed and analyzed in Chapter 6. Table 17 summarizes the pool totals for all commodities.

Appendix B contains additional information on the estimated terminal capacity for each of the 41 river segments. The segment capacity is broken down by commodity and river bank. The data provided results from the application of the capacity estimation program to the MarAd Port Facility Inventory data base.

Finally, Appendix C restructures the information contained in Tables 6 through 16 and displays a comparison of estimated capacity for each commodity against the actual and projected flow for that commodity. This is done for each river pool in the study.

TABLE 5

TERMINAL CAPACITY BY COMMODITY AND STATE*
(Short Tons in Thousands)

COE Commodity Projection Group	Illinois	Iowa	Minnesota	Missouri	Wisconsin	Commodity Total
Farm Products/Food and Kindred Products	52,572	10,665	26,581	5,233	315	95,366
Metallic Ores	1,432	70	1,217	1	-	2,720
Coal	97,538	7,684	33,654	2,482	10,660	152,018
Crude Petroleum	2,126	-	3,481	1,037	-	6,644
Non-metallic Minerals/ Stone, Clay, Glass, and Concrete Products	23,326	10,031	11,597	30,783	1,082	76,819
Lumber and Wood Products/ Pulp, Paper, and Allied Products	355	770	-	285	-	1,410
Chemicals	33,999	12,552	16,052	7,728	2,004	72,335
Petroleum and Coal Products	30,662	12,007	32,591	10,099	4,767	90,126
Primary Metal Products	6,226	686	4,704	144	-	11,760
Waste and Scrap	1,774	536	1,927	-	99	4,336
Other Commodities	556	715	41	637	-	1,949
STATE TOTAL	250,566	55,716	131,845	58,429	18,927	515,483

*Figures include terminal capacity for river segments 28, 29, 33.

TABLE 6

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

CORPS OF ENGINEERS COMMODITY GROUPS 1 & 6
- Farm Products
- Food and Kindred Products

RIVER POOL	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
1	2,396,000	641,892	1,074,050	1,485,904
2	22,000,000	4,415,920	7,469,852	10,411,583
3	-	-	-	-
4	881,000	320,898	552,993	769,270
5	-	-	-	-
5A	-	-	-	-
6	1,304,000	476,373	828,113	1,170,986
7	-	-	-	-
8	315,000	112,778	194,947	247,993
9	-	-	-	-
10	2,187,000	646,274	1,117,151	1,575,854
11	-	-	-	-
12	1,404,000	646,257	1,098,980	1,527,656
13	-	76,235	81,697	85,010
14	1,447,000	992,333	1,665,064	2,317,864
15	270,000	334,716	444,008	543,823
16	3,349,000	1,327,710	2,204,183	3,036,987
17	615,000	543,311	879,704	1,241,999
18	717,000	625,820	1,061,167	1,448,314
19	2,810,000	1,405,810	2,369,914	3,207,009
20	1,341,000	129,916	227,003	322,405
21	554,000	633,952	1,087,353	1,505,944
22	1,154,000	142,668	245,627	344,231
24	-	198,506	336,030	453,242
25	-	70,000	121,002	170,685
26	6,305,000	2,579,786	3,749,680	5,280,835
27	3,000,000	2,700,547	3,281,182	3,943,533
Lockport	2,279,000	1,808,547	2,234,414	2,970,815
Brandon Road	772,000	493,587	583,700	754,596
Dresden Is.	-	42,586	47,233	52,174
Marseilles	4,432,000	1,783,926	2,260,809	3,214,685
Starved Rock	3,034,000	1,274,082	1,648,158	2,370,209
Peoria	18,591,000	5,347,413	6,902,180	9,859,554
La Grange	9,032,000	4,030,918	5,217,449	7,494,933
TOTAL	90,189,000	33,802,761	48,983,643	67,808,093

TABLE 7

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

CORPS OF ENGINEERS COMMODITY GROUP 2
. Metallic Ores

RIVER POOL	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
1	1,198,000	11,925	14,846	16,563
2	19,000	1,356	1,688	1,883
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
5A	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	-	-	-	-
13	-	-	-	-
14	-	-	-	-
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	-	-	-	-
19	-	1,389	1,729	1,948
20	70,000	4,270	5,316	9,885
21	-	12,487	15,546	17,516
22	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	-	9,050	16,467	20,443
27	-	723	900	1,014
Lockport	485,000	7,727	14,364	17,904
Brandon Road	-	-	-	-
Dresden Is.	-	-	-	-
Marseilles	85,000	600	1,203	1,525
Starved Rock	-	-	-	-
Peoria	828,000	-	-	-
La Grange	-	-	-	-
TOTAL	2,685,000	49,527	72,059	88,681

TABLE 8

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

CORPS OF ENGINEERS COMMODITY GROUP 3
. Coal

RIVER POOL	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
1	1,694,000	1,155,977	2,355,903	3,087,166
2	15,033,000	1,329,643	2,677,815	3,503,925
3	15,970,000	1,335,769	2,679,249	3,531,830
4	294,000	18,181	36,466	48,065
5	4,121,000	478,642	962,799	1,249,431
5A	-	-	-	-
6	663,000	73,967	149,079	184,933
7	-	-	-	-
8	850,000	74,141	148,954	194,578
9	5,991,000	1,537,157	3,089,745	4,025,799
10	122,000	-	-	-
11	1,262,000	641,642	1,287,135	1,695,444
12	493,000	379,070	761,617	994,671
13	-	-	-	-
14	1,886,000	599,426	1,205,441	1,575,572
15	-	19,265	38,932	49,233
16	2,069,000	218,211	440,284	561,796
17	618,000	104,731	211,360	269,382
18	-	-	-	-
19	932,000	6,858	13,890	17,344
20	-	21,046	42,496	53,967
21	-	-	-	-
22	318,000	4,336	8,771	11,025
24	-	161,539	313,930	400,924
25	-	-	-	-
26	4,633,000	1,088,440	1,922,846	2,412,617
27	1,227,000	248,499	441,891	556,584
Lockport	36,342,000	5,095,860	8,813,509	10,648,123
Brandon Road	-	99,827	172,619	208,482
Dresden Is.	1,254,000	121,015	208,165	251,406
Marseilles	2,356,000	113,851	195,161	232,353
Starved Rock	64,000	170,754	295,721	358,053
Peoria	7,144,000	994,847	1,776,321	2,256,006
La Grange	7,813,000	4,349,216	7,501,675	9,053,445
TOTAL	113,149,000	20,441,910	37,751,774	47,432,154

TABLE 9

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

CORPS OF ENGINEERS COMMODITY GROUP 4
. Crude Petroleum

RIVER POOL	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
1	-	-	-	-
2	3,015,000	596,695	537,530	532,180
3	466,000	-	-	-
4	-	-	-	-
5	-	-	-	-
5A	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	-	-	-	-
13	-	-	-	-
14	-	1,332	1,264	1,355
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	-	-	-	-
19	-	-	-	-
20	-	-	-	-
21	54,000	-	-	-
22	120,000	-		-
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	1,763,000	13,761	13,061	14,005
Lockport	363,000	128,535	115,789	114,804
Brandon Road	-	-	-	-
Dresden Is.	-	12,318	10,529	10,529
Marseilles	-	-	-	-
Starved Rock	-	-	-	-
Peoria	-	-	-	-
La Grange	-	-	-	-
TOTAL	5,781,000	752,641	678,173	672,873

TABLE 10

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

CORPS OF ENGINEERS COMMODUTY GROUPS 5 & 11
- Sand, Gravel and other Non-metallic Minerals
- Stone, Clay, Glass and Concrete Products

RIVER POOL	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
1	2,713,000	761,736	636,495	590,612
2	8,678,000	399,374	299,877	262,684
3	-	-	-	-
4	111,000	1,375	1,002	906
5	-	-	-	-
5A	-	-	-	-
6	95,000	18,260	13,313	12,042
7	-	-	-	-
8	779,000	53,125	58,791	59,965
9	-	-	-	-
10	303,000	24,781	18,070	16,342
11	-	95	72	61
12	4,039,000	80,409	58,634	53,027
13	-	-	-	-
14	1,301,000	446,021	329,338	289,465
15	1,696,000	571,640	489,359	457,476
16	1,402,000	222,916	188,934	180,633
17	260,000	11,885	8,782	7,705
18	-	2,550	1,868	1,670
19	1,670,000	91,924	67,030	60,621
20	-	2,929	2,134	1,931
21	394,000	6,217	4,533	4,099
22	6,313,000	402,055	527,739	583,498
24	-	952,957	1,213,103	1,311,666
25	-	-	-	-
26	2,943,000	13,046	11,088	12,052
27	1,103,000	133,147	101,558	89,501
Lockport	6,874,000	4,663,432	4,236,252	4,134,877
Brandon Road	-	419,270	326,733	289,537
Dresden Is.	655,000	449,459	352,095	315,746
Marseilles	6,043,000	2,044,989	1,585,840	1,404,120
Starved Rock	25,000	314,994	245,968	218,248
Peoria	3,047,000	423,032	365,562	345,226
La Grange	2,147,000	99,216	97,902	99,961
TOTAL	52,591,000	12,610,834	11,242,072	10,803,671

TABLE 11

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

CORPS OF ENGINEERS COMMODITY GROUPS 7 & 8
- Lumber and Wood Products
- Pulp, Paper, and Allied Products

RIVER POOL	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
1	-	9,237	10,244	10,224
2	-	930	1,265	2,537
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
5A	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	87,000	-	-	-
13	-	-	-	-
14	25,000	-	-	-
15	-	-	-	-
16	696,000	10,222	16,715	17,672
17	-	-	-	-
18	-	-	-	-
19	-	4,799	5,322	5,322
20	-	-	-	-
21	-	-	-	-
22	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	225,000	16,000	17,517	18,413
27	-	13,124	20,001	20,900
Lockport	-	102,746	124,445	144,879
Brandon Road	-	4,287	4,942	5,623
Dresden Is.	-	-	-	-
Marseilles	-	850	979	1,115
Starved Rock	-	-	-	-
Peoria	-	-	-	-
La Grange	92,000	2,027	2,336	2,658
TOTAL	1,125,000	164,222	203,766	229,343

TABLE 12

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

CORPS OF ENGINEERS COMMODITY GROUP 9
. Chemicals

RIVER POOL	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
1	70,000	15,817	25,810	39,397
2	14,577,000	799,072	1,299,581	1,980,422
3	1,520,000	5,244	8,514	12,973
4	-	-	-	-
5	-	-	-	-
5A	-	-	-	-
6	1,405,000	81,722	132,964	202,575
7	-	-	-	-
8	55,000	1,409	2,288	3,485
9	-	1,082	1,757	2,676
10	56,000	6,885	11,179	17,032
11	373,000	-	-	-
12	4,518,000	218,512	355,346	504,039
13	-	10,000	16,239	24,740
14	2,262,000	369,909	603,794	919,804
15	-	15,785	26,233	39,052
16	1,180,000	75,081	122,284	185,944
17	1,219,000	79,349	129,065	196,632
18	-	-	-	-
19	4,676,000	199,584	192,716	288,540
20	-	6,721	10,854	16,628
21	394,000	23,350	37,920	57,773
22	176,000	58,838	95,546	145,564
24	425,000	125,882	199,844	289,791
25	-	116,209	191,109	291,128
26	563,000	136,419	216,076	302,211
27	105,000	**646,113**	**1,064,758**	**1,637,998**
Lockport	15,355,000	3,159,248	4,923,168	6,834,279
Brandon Road	-	340,517	539,223	753,310
Dresden Is.	1,704,000	363,577	575,815	804,918
Marseilles	2,298,000	338,566	533,401	742,775
Starved Rock	81,000	19,579	30,867	43,036
Peoria	4,747,000	227,784	439,796	614,320
La Grange	6,804,000	679,527	1,068,174	1,492,348
TOTAL	64,563,000	8,121,781	12,854,321	18,443,390

TABLE 13

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

CORPS OF ENGINEERS COMMODITY GROUP 10
. Petroleum and Coal Products

RIVER POOL	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
1	1,294,000	97,886	94,640	95,044
2	29,648,000	1,054,717	1,000,921	990,617
3	356,000	22,936	22,346	22,571
4	-	-	-	-
5	-	-	-	-
5A	-	-	-	-
6	1,293,000	59,934	58,394	58,980
7	-	-	-	-
8	4,767,000	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	1,876,000	166,000	161,735	163,359
13	-	-	-	-
14	1,352,000	8,030	8,030	8,192
15	7,791,000	777,252	754,974	761,486
16	1,041,000	251,017	243,412	245,504
17	-	-	-	-
18	-	-	-	-
19	90,000	61,330	59,753	60,353
20	-	7,752	7,262	7,119
21	1,607,000	254,296	247,440	249,685
22	-	16,770	15,639	15,386
24	-	-	-	-
25	-	-	-	-
26	328,000	1,102,127	950,079	925,323
27	11,814,000	4,736,040	4,642,924	4,735,445
Lockport	10,424,000	2,713,523	2,385,420	2,371,350
Brandon Road	-	484,154	413,572	393,392
Dresden Is.	2,678,000	1,502,777	1,281,213	1,216,314
Marseilles	2,233,000	495,889	425,262	410,907
Starved Rock	-	-	-	-
Peoria	1,234,000	1,360,651	1,168,307	1,173,672
La Grange	646,000	673,596	600,995	615,370
TOTAL	80,472,000	15,846,677	14,542,318	14,520,069

TABLE 14

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

CORPS OF ENGINEERS COMMODITY GROUP 12
. Primary Metal Products

RIVER POOL	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
1	2,164,000	80,030	100,655	116,704
2	2,429,000	119,914	148,071	170,296
3	-	-	-	-
4	111,000	49,460	59,658	68,104
5	-	-	-	-
5A	-	-	-	-
6	-	2,499	3,232	3,788
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	13,582	17,569	20,592
11	-	39,574	41,681	43,813
12	231,000	-	-	-
13	-	-	-	-
14	65,000	5,398	6,908	8,061
15	-	6,232	8,061	9,448
16	99,000	11,875	15,112	17,581
17	-	-	-	-
18	-	-	-	-
19	314,000	1,015	1,069	1,123
20	76,000	10,372	12,094	13,473
21	-	11,491	14,470	16,765
22	-	270	349	409
24	-	2,994	3,873	4,539
25	-	-	-	-
26	1,845,000	453,600	581,501	679,395
27	477,000	394,128	498,424	578,873
Lockport	313,000	2,499,445	3,058,980	3,498,711
Brandon Road	-	30,969	39,424	45,687
Dresden Is.	-	1,147	1,339	1,509
Marseilles	171,000	14,289	18,249	21,178
Starved Rock	-	-	-	-
Peoria	2,578,000	164,782	208,620	240,429
La Grange	430,000	383,026	470,124	537,349
TOTAL	11,303,000	4,296,092	5,309,463	6,097,827

TABLE 15

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

CORPS OF ENGINEERS COMMODITY GROUP 13
. Waste and Scrap

RIVER POOL	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
1	323,000	19,141	19,141	19,141
2	1,483,000	2,922	2,723	2,614
3	-	-	-	-
4	22,000	-	-	-
5	-	-	-	-
5A	-	-	-	-
6	99,000	-	-	-
7	-	-	-	-
8	99,000	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	-	-	-	-
13	-	-	-	-
14	-	-	-	-
15	536,000	7,496	8,443	8,443
16	-	305	305	305
17	-	-	-	-
18	-	-	-	-
19	-	-	-	-
20	-	-	-	-
21	-	-	-	-
22	-	4,578	4,578	4,578
24	-	-	-	-
25	-	-	-	-
26	-	128,533	150,884	137,704
27	114,000	19,571	27,803	27,634
Lockport	1,581,000	321,381	246,212	209,428
Brandon Road	-	-	-	-
Dresden Is.	-	1,350	1,169	1,057
Marseilles	-	-	-	-
Starved Rock	-	-	-	-
Peoria	79,000	31,960	23,422	19,596
La Grange	-	82,207	39,861	36,096
TOTAL	4,336,000	619,444	524,541	466,596

TABLE 16

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

CORPS OF ENGINEERS COMMODITY GROUP 14
. Other Commodities

RIVER POOL	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
1	-	12,152	14,360	16,586
2	41,000	**327,646**	**337,571**	**348,621**
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
5A	-	-	-	-
6	-	2,966	3,023	3,115
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	8,435	13,697	18,951
12	96,000	2,948	2,993	3,083
13	-	1,740	1,762	1,814
14	15,000	1,800	1,903	1,995
15	-	-	-	-
16	-	3,732	3,790	3,883
17	-	9,400	9,648	9,940
18	-	2,710	2,781	2,838
19	587,000	358	362	371
20	17,000	1,200	1,215	1,252
21	-	-	-	-
22	-	221	223	230
24	-	-	-	-
25	-	86,500	88,758	91,456
26	-	68,511	52,934	33,509
27	-	396,713	505,876	608,323
Lockport	162,000	**182,147**	**296,200**	**427,816**
Brandon Road	57,000	**185,612**	**301,418**	**417,036**
Dresden Is.	-	320,169	521,324	724,294
Marseilles	229,000	500	811	1,123
Starved Rock	-	1,615	2,622	3,628
Peoria	66,000	12,943	21,181	29,307
La Grange	42,000	6,908	11,217	15,521
TOTAL	1,312,000	**1,636,926**	**2,195,669**	**2,764,692**

TABLE 17

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

ALL COMMODITIES

RIVER POOL	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
1	11,852,000	2,805,793	4,346,144	5,477,341
2	96,923,000	9,048,189	13,776,894	18,207,362
3	18,312,000	1,363,949	2,710,109	3,567,374
4	1,419,000	389,914	650,119	886,345
5	4,121,000	478,642	962,799	1,249,431
5A	-	-	-	-
6	4,859,000	715,721	1,188,118	1,636,419
7	-	-	-	-
8	6,865,000	241,453	404,980	506,021
9	5,991,000	1,538,239	3,091,502	4,028,475
10	2,668,000	691,522	1,163,969	1,629,820
11	1,635,000	689,746	1,342,585	1,758,269
12	12,744,000	1,493,196	2,439,305	3,245,835
13	-	87,975	99,698	111,564
14	8,353,000	2,424,249	3,821,742	5,122,308
15	10,293,000	1,732,386	1,770,010	1,868,961
16	9,836,000	2,121,069	3,235,019	4,250,305
17	2,712,000	748,676	1,238,559	1,725,658
18	717,000	631,080	1,065,816	1,452,822
19	11,079,000	1,773,067	2,711,785	3,642,631
20	1,504,000	184,206	308,374	426,660
21	3,003,000	941,793	1,407,262	1,851,782
22	8,081,000	629,736	898,472	1,104,921
24	425,000	1,441,878	2,066,780	2,460,162
25	-	272,709	400,869	553,269
26	16,842,000	5,595,512	7,669,072	9,822,502
27	19,603,000	9,302,366	10,598,378	12,213,810
Lockport	74,178,000	20,682,591	26,448,753	31,372,986
Brandon Road	829,000	2,058,223	2,381,631	2,867,663
Dresden Is.	6,291,000	2,814,398	2,998,882	3,377,947
Marseilles	17,847,000	4,793,460	5,021,715	6,029,781
Starved Rock	3,204,000	1,781,024	2,223,336	2,993,174
Peoria	38,314,000	8,563,412	10,905,389	14,538,110
La Grange	27,006,000	10,306,641	15,009,733	19,347,681
TOTAL	427,506,000	98,342,815	134,357,799	169,327,389

CHAPTER 6

COMPARISON OF TERMINAL CAPACITY AND COMMODITY PROJECTIONS

The purpose of this chapter is to examine whether there is sufficient terminal capacity within each river segment to handle the projected commodity flows as set forth in the Corps of Engineers' projections for the Mississippi River Master Plan.

Tables 6 through 16 compare, for each of the Corps' commodity groupings, the terminal capacity by river segment for that commodity against the actual tonnage moved for 1977 and the projected flows for 1990 and 2000.

The commodity figures used in the tables were derived from the Corps' projections. These provided a breakdown of waterborne traffic by commodity grouping for the Upper Mississippi River System for base year 1977 and projections for 1990 and 2000.

The commodity figures shown in each table were calculated by examining, separately, the upbound and downbound flows for each river pool. The absolute value for the net difference in each directional flow was totaled and presented in the table as the total movement for that commodity.

Segments 28, 29 and 33 are excluded from this analysis since they are located outside the area for which commodity projections were provided by the Corps.

In analyzing Tables 6 through 16, it is important to keep in mind that the primary purpose of this task was to identify potential constraints to the flow of commerce on the Upper Mississippi River system which may be created by inadequate terminal capacity. The capacity comparisons presented should not be viewed as definitive, but they represent the best estimate allowed by study resources available. The comparisons highlight those pools of the system which may reach or have already reached capacity for a particular commodity group. The capacity estimates shown in the tables do not reflect the potential capacities which may be realized through handling several types of cargoes at a multipurpose terminal.

Relatively small volumes of some commodities, such as coal, waste and scrap, and lumber may be handled at existing multipurpose terminals, or at an existing terminal in a nearby pool.

There are inherent limitations in any effort of this sort, which results from the use of statistical averages and standardized parameters in the capacity methodology. This study evaluates only one Master Plan projection. The Master Plan also made several different scenario projections which were not evaluated. It is incumbent on the user of this report to examine the specific current and future conditions of a particular river pool.

The capacity methodology used in this study was designed to analyze segments which compose the Upper Mississippi River System. The capacity equations utilize a series of factors which are based on average operating practices. These factors are coupled with specific terminal data and the resulting capacity estimates are in this case aggregated by river segments.

The size of the river segments, in terms of the number of terminals in each, range from a low of 0 in pools where no capacity now exists to a high of 60. Because of the use of system averages in the methodology, the variability of the capacity estimates is larger in river segments with only a few terminal facilities.

Within the study area, there are a number of terminal facilities that are direct transfer operations with little or no storage area. This fact caused their terminal capacities to be understated because the storage area was considered the limiting factor as discussed in Chapter 3. Where this occurred the calculated terminal capacities reported in tables 6 through 16 were adjusted by using the high transfer capacity. This situation was limited to a few grain and non-metallic mineral facilities.

The commodity flows projected for the Lockport pool require a word of clarification. The Corps' commodity data does not include figures for the O'Brien Lock, which is the upper limit of the Lockport pool nor for the Chicago River which is not in the study area. As a result, an unknown portion of the Lockport pool commodity transfer demand is actually originating in or destined for locations on the Calumet or Chicago Rivers outside of the study area.

A review of tables 6 through 16 indicate several areas where apparent inconsistancies exist in the comparisons due in part to the inherent limitations. These variations fall into two major categories: (1) river pools showing minor and major commodity flows with little or no capacity, and (2) pools indicating terminal capacities with little or no corresponding commodity flow. Several possible explanations for this exist. One obvious answer points to errors in the reported inventory data: inaccurate facility data, errors in coding, or missed facilities. Our review of these possibilities indicates that the error rate falls well within acceptable limits and does not materially alter the overall results.

Where minor commodity movements existed without a corresponding terminal capacity, the commodity was probably handled by an existing multipurpose terminal that had its capacity recorded under another commodity group. In the case of the large flows with little or no terminal capacity, the cause is most likely due to the inherent difficulty of matching Corps of Engineers commodity groupings with inventory commodity groupings used in this study.

During the matching process between the group classifications, some commodities undoubtly fell into a wrong commodity handling grouping. This situation made it difficult to ensure total compatibility in the comparison of the terminal capacity estimates and commodity projections shown for each river pool. While the overall impact of this appears minor, in specific instances it may account for certain anomalies noted in the river pool comparisons.

Some commodities such as dredging sand and rip-rap material which appear in the Corps' data as movements between pools, typically do not pass through established terminals. In addition, the Corps' commodity data did not include intrapool movements.

A final condition may explain significant apparent overcapacity for some commodities in certain pools. Numerous private firms have facilities to support their own needs without regard to the degree of use. Substantial excess capacity may result when capacity estimates have been calculated according to a methodology that uses standard parameters such as the number of work hours per year. This could create situations where the capacity exceeds the commodity flow for a particular river pool. Such apparent excess capacity may not be available for general use.

It is recognized that errors exist in the data source which was used for this report. The historical dock to dock commodity movements, as reported by the Corps of Engineers and used for their traffic projections, are not completely accurate. The errors in the data source are of three general types:

1. Unreported commodity movements;
2. Incorrectly described commodities; and
3. Incorrectly identified terminals.

Because the data is reported to the Corps of Engineers by the barge companies, the commodity movements may be incorrectly reported for one or another of the following reasons.

For one, the petroleum and chemical industries, among others, often make exchange agreements which allow suppliers to serve each others' customers at a transportation cost savings to each firm. For example, a refinery in Joliet could contract to supply petroleum products to a firm in Minneapolis, while a refinery in Wood River, Illinois contracts with a firm in Chicago. The refineries may then agree to supply the others' customer to enable each firm to save transportation costs. These shipments are occasionally unreported as each firm erroneously assumes that the other firm reported the movements to the Corps of Engineers as required.

For another, when barges are moved by more than one barge line, there exists the possibility that one, both or neither barge line may report the total movement, or just their segment of the movement, to the Corps.

Or yet another, when shippers charter or contract for movements, they may incorrectly report their shipments because of a lack of knowledge or concern as to the proper reporting of their shipment data.

Commodities may be incorrectly reported to the Corps in many cases. These cases should be primarily in chemicals, where the barge operator may not know the Corps' commodity classification for the particular chemical which is being carried.

This type of error should not effect this report, because the commodities would still remain in their handling category. However, it may affect agricultural fertilizers which can be either dry or liquid bulk.

Also, the actual dock of shipment or receipt may be incorrectly named because of clerical errors when specifying shipment data which then remain uncorrected; this appears to be the main source of error in the Corps data for this report. Every year, terminals are constructed, sold, leased to other firm or closed; the Corps of Engineers' "Port and Dock Code Manual" does not keep an accurate account of all the changes.

Finally, some shipments, particularly grain, may be reconsigned in transit to a different destination. For example, a barge load of corn may be shipped from an elevator in Spring Valley, Illinois, with a listed destination to an elevator in Joliet; however, the grain is reconsigned while enroute to an export elevator in Chicago. Such diversions may not be reported to the Corps and thus its records go uncorrected; the report lists the Joliet elevator as the destination of the barge load of corn.

The Corps of Engineers projections were used "as is", recognizing that the above error types exist in the data.

For reasons discussed at the beginning of this chapter, this study did not attempt to analyze the individual river pool capacity/commodity flow comparisons shown in the tables. Instead, the approach taken was to develop a systematic methodology that would identify those river pools which appear to have reached or will have reached capacity for particular commodities within the time period of the forecast.

CHAPTER 7

SUMMARY AND CONCLUSIONS

The Navigation/Transportation Work Team considered the effects of various types of constraints, other than locks, upon the capacity of the navigation system. The Team chose to analyze terminal transshipment capacity in detail, and to defer the analysis of other potential constraints to later studies.

To analyze terminal transshipment for the Master Plan, the U.S. Maritime Administration conducted the study "Water Transportation Network." The study developed an inventory of barge terminals and relevant information for each terminal, and then estimated the annual cargo transshipment capacity of each terminal. The individual capacities were then aggregated by commodity group within each river pool to develop the estimated transshipment capacity for each pool and commodity group.

The estimated transshipment capacities were compared to the cargo flows forecast in Navigation Carrying Capacity Analysis, Appendix F: Commodity Flow Projections for 1990 and 2000, as well as to the actual 1977 interpool tonnages, to identify projected capacity constraints.

It should be recalled that river terminals are predominantly privately owned and operated. It is anticipated that private industry and the private sector will make the capital investments necessary to eliminate any transshipment constraints identified in this study at the appropriate time.

The capacities calculated in this study do not consider the economic efficiency of the existing terminals. It is expected that in many instances new, more efficient terminals will be constructed to compete with older, less efficient terminals before the physical capacity of the existing terminals is reached. In addition to the anticipated new terminal construction, older terminals may be substantially modernized to allow them to function efficiently. Such additional terminal development is not identified in this study because of resource limitations.

The indicated capacity deficits identified in this study also do not consider the possibility that the occasional demands for relatively small volumes of commodities such as coal, waste and scrap, or lumber products may occur from time to time. These movements are usually handled at an existing multipurpose terminal and are not of a size or frequency to warrant construction of a special facility.

Chemicals will require additional transshipment capacity in Mississippi River pool numbers 13, 15, 25 and 27 and in Brandon Road pool on the Illinois River.

Coal will require additional transshipment capacity in Mississippi River pool numbers 1, 11, 12, 15, 20 and 24 and in Brandon Road, Starved Rock and La Grange pools on the Illinois River.

Farm products will require additional transshipment capacity in Mississippi River pool numbers 12, 13, 15, 17, 18, 29, 21 24, 25 and 27 and in Dresden Island pool on the Illinois River.

Other commodity groups have more localized commodity transshipment needs.

Using this information, the efforts of the public and private sectors can be focused on those pools of immediate concern. The ultimate benefit is the gain of additional time for solutions to be developed and implemented. Thus, economic hardships, losses and diversions created by inadequate terminal capacity may be reduced or avoided.

APPENDIX A

TERMINAL LISTING

FOOTNOTES TO APPENDIX A

The footnoted headings used in Appendix A are defined as follows:

1. RIVER NAME

    BK - Black River
    CC - Chicago River and Ship Canal
    CD - Chicaho River, South Fork
    CF - Chicago River, South Branch
    CS - Cal-Sag Channel
    CV - Little Calumet River
    KS - Kaskasia River
    IL - Illinois Waterway
    ME - Minnesota River
    MI - Mississippi River
    SC - St. Croix River

2. BANK CODE

    A - Left Bank Descending
    B - Right Bank Descending

3. CLASSIFICATION

    B - Public
    C - Private

4. CARGO TYPES

    1 - Wood Chips[2]
    2 - Fish[2]
    3 - Logs[2]
    4 - Cement
    5 - ASphalt
    6 - Fuel Oil-Plant Use
    A - General Cargo
    B - Passenger/General Cargo[1]
    C - Passenger[2]
    D - Wood and Wood Products
    E - Coal and Coal Products
    F - Ores and Concentrates
    G - Non-Metallic Minerals
    H - Iron, Steel, and Mill Products
    I - Fertilizers
    J - Crude Petroleum
    K - Refined Petroleum Products
    L - Liquefied Natural Gas
    M - Liquefied Propane Gas
    N - Liquid Bulk Ores
    O - Grain
    P - Bulk Raw Sugar
    Q - Bauxite and Alumina Ores
    R - Liquefied Chemicals and Allied Products
    S - Other
    T - Molasses
    U - Caustic Soda
    V - Scrap Metal
    W - Refrigerated[2]
    Z - Automobiles[2]

1/ Combined with type "A"
2/ No cargo handling capacity estimated

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APPENDIX A

PAGE [redacted]

TERMINAL LISTING, CLASSIFICATION AND CARGO TYPES
BY POOL

PORT-TERM CODE	POOL	RIV NAME 1/	RIV MILE	BANK CODE 2/	STATE	TERMINAL NAME	CLASSIFICATION 3/	CARGO TYPES 4/
32853-825A	1	MI	852.0	A	MN	KOCH REFINING CO	C	KL
32853-083A	1	MI	853.1	A	MN	UNIVERSITY OF MINNESOTA	B	E
32853-178A	1	MI	855.0	A	MN	PORT VICTORIA	C	O
32853-676B	1	MI	852.2	B	MN	CON-AGRA	B	EFGHI
32853-789A	1	MI	853.5	B	MN	GENERAL MILLS INC	C	O
32853-787A	1	MI	853.5	B	MN	J L SHIELY YARD C	C	G
32853-676A	1	MI	856.3	B	MN	CON-AGRA	B	EFGHO
32853-631A	1	MI	856.5	B	MN	TRUMBULL ASPHALT	C	S
32853-699A	1	MI	856.8	B	MN	AMERICAN IRON & SUPPLY CO	C	V
32853-665A	1	MI	857.4	B	MN	DUNDEE CEMENT	C	G
32825-201A	2	MI	825.0	A	MN	J L SHIELY NELSON PLANT	C	G
32826-612A	2	MI	826.6	A	MN	J L SHIELY LARSON PLANT	C	G
32840-005A	2	MI	830.0	A	MN	NORTHWESTERN REFINING CO	C	JK
32840-025A	2	MI	832.2	A	MN	ERICKSON PETROLEUM CORPORATION	C	K
32840-077A	2	MI	833.5	A	MN	PILLSBURY TERMINAL	C	O
32840-004Z	2	MI	833.9	A	MN	BARTON ENTERPRISES	C	GK
32840-148A	2	MI	836.5	A	MN	KNAPPEN MOLASSES CO	C	IT
32840-155A	2	MI	836.7	A	MN	MARTIN MARIETTA CEMENT	C	G
32840-149A	2	MI	836.8	A	MN	CHEVRON USA INC	B	K
32840-150A	2	MI	836.9	A	MN	INDUSTRIAL MOLASSES	C	KT
32840-154A	2	MI	837.0	A	MN	GREAT LAKES COAL & DOCK	C	EHG
32840-153A	2	MI	837.2	A	MN	J L SHIELY YARD A	C	G
32840-152A	2	MI	837.3	A	MN	VEL TEX CHEMICAL CO INC	C	U
32840-167A	2	MI	837.4	A	MN	FARMERS UNION GRAIN TERMINAL	C	O
32840-215A	2	MI	840.0	A	MN	FARMERS UNION GRAIN TRMNL ASSOC	C	O
32840-232A	2	MI	840.5	A	MN	NORTHERN STATES POWER CO	C	E
32840-234A	2	MI	840.8	A	MN	UNION OIL CO	C	K
32840-253A	2	MI	841.6	A	MN	CLARK OIL CO	C	K
32840-266A	2	MI	842.2	A	MN	SHELL OIL CO	C	KR
32840-268A	2	MI	842.3	A	MN	MOBIL OIL CO	C	K
32840-256A	2	MI	842.5	A	MN	ADM ELEVATOR D	C	O
32840-271A	2	MI	842.5	A	MN	TEXACO INC	C	K
32840-722A	2	MI	843.3	A	MN	J L SHIELY YARD B	C	G
32823-811A	2	MI	823.8	B	MN	C F INDUSTRIES INC	C	IK
32823-811B	2	MI	823.8	B	MN	C F INDUSTRIES INC	C	R
32824-611A	2	MI	824.2	B	MN	KOCH REFINING CO	C	JKL
32840-003Z	2	MI	831.7	B	MN	PACKER RIVER TERMINAL	C	EFGOV
32840-870A	2	MI	836.0	B	MN	ALTER COMPANY	B	EGHIO
32840-820A	2	MI	838.4	B	MN	KOCH FEULS	C	K
32840-818A	2	MI	838.8	B	MN	FARMLAND INDUSTRIES	C	I
32840-802A	2	MI	839.4	B	MN	AMERICAN MINERAL SPIRITS CO	C	K
32811-402A	3	MI	811.0	A	WI	PRESCOTT FERTILIZER CORP	C	I
32814-611A	3	MI	814.6	B	MN	KOCH REFINING CO	C	JKL
32789-401A	4	MI	789.4	B	MN	NORTHERN STATES POWER CO	C	E
32790-701A	4	MI	790.8	B	MN	RED WING MUNICIPAL BARGE TERMNL	B	EGHOV
32791-031B	4	MI	791.0	B	MN	ADM	C	O

TERMINAL LISTING, CLASSIFICATION AND CARGO TYPES
BY POOL

PORT-TERM CODE	POOL	RIV NAME	RIV MILE	BANK CODE	STATE	TERMINAL NAME	CLASSIFICATION	CARGO TYPES
32791-031A	4	MI	791.0	B	MN	CONTINENTAL GRAIN CO	C	G
32751-502A	5	MI	751.5	A	WI	DAIRYLAND POWER PLANT	C	E
32724-401A	6	MI	720.4	B	MN	SHELL OIL CO	C	K
32723-901A	6	MI	724.0	B	MN	JOSWICK FUEL & OIL	C	EIO
32724-501A	6	MI	724.5	B	MN	STANDARD TRANSMISSION	C	IR
32724-601A	6	MI	724.6	B	MN	WINONA RIVER TERMINAL	B	O
32724-601B	6	MI	724.6	B	MN	KUYAK BROS CORP	B	EGIV
32725-202A	6	MI	725.2	B	MN	BAY STATE MILLING CO	C	O
32726-501A	6	MI	726.2	B	MN	WINONA RIVER TERMINAL	C	O
32726-501B	6	MI	726.5	B	MN	FARMERS UNION GRAIN TRML. ASSOC	C	O
32697-422A	8	MI	697.4	A	WI	LA CROSSE DOCKS	C	EGS
32697-732A	8	MI	697.7	A	WI	CARGILL, INC.	C	O
32903-036A	8	MI	697.9	A	WI	LA CROSSE MUNICIPAL DOCK	B	G
32678-702A	9	MI	678.7	A	WI	GENOA NUMBER 3 PLANT	C	E
32660-001A	9	MI	660.0	B	IA	INTERSTATE POWER COMPANY	C	E
32635-202A	10	MI	634.8	A	WI	MUNICIPAL DOCK	B	GI
32639-002A	10	MI	639.0	A	WI	PRAIRIE SAND AND GRAVEL	C	EGO
32624-311A	10	MI	624.0	B	IA	PATTISON GRAIN TERMINAL	C	O
32633-311A	10	MI	633.3	B	IA	AGRI-INDUSTRIES	C	O
31606-202A	11	MI	606.1	A	WI	E. J. STONEMAN POWER PLANT	C	E
31607-802A	11	MI	606.8	A	WI	NELSON DEWEY POWER PLANT	C	ES
31559-001A	12	MI	559.0	B	IA	USS AGRI-CHEMICALS CO	C	IR
31579-201A	12	MI	579.2	B	IA	SINCLAIR MARKETING INC	C	K
31579-301A	12	MI	579.3	B	IA	DUBUQUE TWINE COMPANY	C	A
31579-401A	12	MI	579.4	B	IA	DUBUQUE TANK TERMINAL CO	C	GIRST
31579-501A	12	MI	579.5	B	IA	MOLD SAND & GRAVEL CO	C	G
31580-001A	12	MI	580.0	B	IA	INTERSTATE POWER COMPANY	C	E
31580-001B	12	MI	580.0	B	IA	PILLSBURY COMPANY	C	IO
31580-101A	12	MI	580.1	B	IA	KOCH ASPHALT TERMINAL	C	G
31580-301A	12	MI	580.3	B	IA	CONTI-CARRIERS & TERMINALS INC	C	DGHIO
31580-301B	12	MI	580.3	B	IA	DUBUQUE TANK TERMINAL CO	C	GI
31508-602A	14	MI	507.0	A	IL	HYDROCARBON TRANSPORTATION INC	C	IS
31509-902A	14	MI	509.9	A	IL	F.S. SERVICES INC	C	K
31514-302A	14	MI	514.3	A	IL	BUNGE CORP	C	O
31498-201A	14	MI	498.2	B	IA	LE CLAIRE QUARRIES, INC	C	G
31512-231A	14	MI	512.2	B	IA	DETERMANN INDUSTRIES, INC	C	AEHID
31513-901A	14	MI	513.9	B	IA	E I DUPONT DENEMOURS, INC	C	U
31514-211A	14	MI	514.2	B	IA	INTERSTATE POWER COMPANY MLK ST	C	E
31517-201A	14	MI	517.2	B	IA	PEAVEY COMPANY	C	O
31517-501A	14	MI	517.5	B	IA	C F SALES, INC	B	GIOS
31517-531A	14	MI	517.5	B	IA	CLINTON CORN PROCESSING	C	K
31483-201A	15	MI	483.2	B	IA	BUILDERS SAND AND GRAVEL CO	C	G
31483-301A	15	MI	483.3	B	IA	W G BLOCK	C	G
31483-301C	15	MI	483.3	B	IA	CON-AGRA INC	C	OV
31486-801A	15	MI	486.8	B	IA	UNIVERSAL ATLAS CEMENT	C	G
31487-001A	15	MI	487.0	B	IA	SHELL OIL COMPANY	C	K

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TERMINAL LISTING, CLASSIFICATION AND CARGO TYPES
BY POOL

PORT-TERM CODE	POOL	RIV NAME	RIV MILE	BANK CODE	STATE	TERMINAL NAME	CLASSIFICATION	CARGO TYPES
31487-001B	15	MI	487.0	B	IA	MOBIL OIL COMPANY	C	K
31487-101A	15	MI	487.1	B	IA	AMOCO OIL COMPANY	C	K
31487-201A	15	MI	487.2	B	IA	PHILLIPS PETROLEUM COMPANY	C	K
31487-501A	15	MI	487.5	B	IA	BETTENDORF TERMINAL COMPANY	C	G
31487-701A	15	MI	487.7	B	IA	TEXACO OIL COMPANY	C	K
31488-501A	15	MI	488.5	B	IA	UNION OIL COMPANY	C	K
31480-802A	16	MI	480.8	A	IL	ROCK ISLAND RIVER TERMINAL	C	DGDHI
31480-902A	16	MI	480.9	A	IL	ILLINOIS OIL PRODUCTS INC	C	R
31481-301A	16	MI	481.3	A	IL	DUNDEE CEMENT COMPANY	C	4
31468-001A	16	MI	468.0	B	IA	EASTERN IOWA LIGHT & POWER CO	B	E
31474-701A	16	MI	474.7	B	IA	MARTIN MARIETTA CEMENT	C	E
31475-501A	16	MI	475.5	B	IA	AMOCO OIL	C	KS
31475-701A	16	MI	475.7	B	IA	PILLSBURY COMPANY	C	DEGIO
31476-001A	16	MI	476.0	B	IA	MISSISSIPPI RIVER GRAIN ELEV. IN	C	G
31477-801A	16	MI	477.6	B	IA	W G BLOCK CO	C	G
31449-901A	17	MI	449.9	B	IA	MONSANTO AGRICULTURAL PROD CO	C	R
31450-301A	17	MI	450.3	B	IA	FARMLAND INDUSTRIES, INC	C	I
31451-201A	17	MI	451.2	B	IA	W G BLOCK	C	G
31451-301A	17	MI	451.3	B	IA	RIVER TERMINAL CORPORATION	C	TIS
31452-901A	17	MI	452.9	B	IA	MUSCATINE POWER & WATER COMPANY	C	E
31453-251A	17	MI	453.2	B	IA	AGRI-INDUSTRIES	C	G
31453-801A	17	MI	453.8	B	IA	GRAIN PROCESSING CORP	C	R
31427-602A	18	MI	427.7	A	IL	BIG RIVER GRAIN ELEVATOR	C	G
31433-002A	18	MI	433.0	A	IL	CONTINENTAL GRAIN CO	C	G
31418-201A	18	MI	418.2	B	IA	AGRI-INDUSTRIES	C	G
31376-402A	19	MI	376.3	A	IL	COLUSA ELEVATOR CO.	C	G
31385-102A	19	MI	385.1	A	IL	ST PAUL AMMONIA PRODUCTS	C	S
31390-402A	19	MI	390.4	A	IL	CONTINENTAL GRAIN CO	C	G
31404-202A	19	MI	404.2	A	IL	MISSISSIPPI RIVER GRAIN CO	C	G
31409-602A	19	MI	409.7	A	IL	TWOMEY COMPANY	C	G
31371-101A	19	MI	371.1	B	IA	IOWA GATEWAY TERMINAL	C	AEGH
31374-901A	19	MI	374.9	B	IA	HUNOLD ELEVATOR, INC.	C	G
31389-001A	19	MI	389.0	B	IA	FIRSTMISS INC	C	GIORW
31390-401A	19	MI	390.0	B	IA	CARGILL INC	C	G
31399-401A	19	MI	399.4	B	IA	AMOCO OIL	C	I
31403-601A	19	MI	403.6	B	IA	TABOR AND COMPANY	C	GS
31404-501A	19	MI	404.5	B	IA	CARPENTER STATIONS INC	C	K
31405-201A	19	MI	405.2	B	IA	WAYNE BROTHERS GRAIN CO	C	G
31405-301A	19	MI	405.3	B	IA	BURLINGTON RIVER TERMINAL, INC	C	GHIO
31343-402A	20	MI	343.4	A	IL	URSA FARMERS COOP CO	B	G
31359-702A	20	MI	359.7	A	IL	WARSAW GRAIN TERMINAL	C	G
31362-001A	20	MI	362.0	B	IA	FOOTE MINERAL COMPANY	C	AFH
31362-301A	20	MI	362.3	B	IA	J C HUBINGER CO	C	G
31327-302A	21	MI	327.3	A	IL	QUINCY SAND COMPANY INC	C	GS
31335-801A	21	MI	335.8	B	MO	BUNGE CORPORATION	C	G
31335-901A	21	MI	335.8	B	MO	TRIANGLE REFINERIES INC	C	JK

TERMINAL LISTING, CLASSIFICATION AND CARGO TYPES
BY POOL

PORT-TERM CODE	POOL	RIV NAME	RIV MILE	BANK CODE	STATE	TERMINAL NAME	CLASSIFICATION	CARGO TYPES
31342-601A	21	MI	342.6	B	MO	AYERS OIL COMPANY	C	K
31310-001A	22	MI	310.0	A	IL	BUNGE CORP EAST HANNIBAL IL	C	D
31306-001A	22	MI	306.0	B	MO	UNIVERSAL ATLAS CEMENT	C	G
31309-001A	22	MI	309.1	B	MO	HANNIBAL GRAIN TERMINAL	C	D
31309-501A	22	MI	309.5	B	MO	HANNIBAL IRON & METAL CO	C	G
31319-801A	22	MI	319.8	B	MO	AMERICAN CYANAMID COMPANY	C	JR
31320-101A	22	MI	320.1	B	MO	NORTHEAST MO ELECTRIC COMPANY	C	E
31320-501A	22	MI	320.5	B	MO	CENTRAL FARMERS FERTILIZER CO	C	R
30281-001A	24	MI	281.0	B	MO	HERCULES POWDER CO	C	RI
30202-452A	26	MI	202.5	A	IL	HYMAN-MICHAELS CO ALTON DOCK	C	HS
30202-502A	26	MI	202.5	A	IL	TWIN RIVER SAND CO	C	G
30203-902A	26	MI	203.3	A	IL	MISSISSIPPI LIME CO SAND PLANT	C	G
30203-202A	26	MI	203.8	A	IL	PEAVEY ELEVATOR	C	D
30204-102A	26	MI	204.0	A	IL	LACLEDE STEEL CO DOCK	C	H
30204-102B	26	MI	204.1	A	IL	ADM GRAIN CO	C	DG
30224-602A	26	MI	224.6	A	IL	CALHOUN QUARRY	C	G
30240-601A	26	MI	240.5	B	MO	PILLSBURY CO	C	D
30179-400C	27	MI	185.2	A	IL	TRI-CITY REG PORT AUTH	B	HVEGC
30179-400B	27	MI	185.8	A	IL	APEX OIL CO	C	K
30179-400A	27	MI	187.5	A	IL	PETROLEUM FUEL & TERMINAL CO	C	K
30194-902A	27	MI	194.9	A	IL	CONTINENTAL OIL CO	C	K
30195-402A	27	MI	195.6	A	IL	PHOENIX TERMINAL CO	C	EHIOV
30196-602A	27	MI	196.6	A	IL	MARATHON PIPE LINE CO DOCK	C	JK
30197-302A	27	MI	197.3	A	IL	CLARK OIL & REFINING CORP	C	36
30197-802A	27	MI	198.1	A	IL	AMOCO OIL DOCK	C	K
30197-602A	27	MI	198.6	A	IL	SHELL OIL CO	C	K
30179-559A	27	MI	187.6	B	MO	MISSOURI PORTLAND CEMENT	C	4
30125-602A	28	MI	125.6	A	IL	KELLOGG COAL DOCK	C	E
30142-302A	28	MI	142.3	A	IL	KEMPER LANDING GRAIN TERMINAL	C	D
30153-502A	28	MI	153.5	A	IL	AGRICO CHEMICAL CO	C	I
30179-859A	28	MI	176.4	A	IL	MOBIL OIL - SAUGET TERMINAL	C	K
30179-137A	28	MI	176.5	A	IL	FOX TERMINAL DOCK	C	EG
30179-181A	28	MI	178.0	A	IL	W G KRUMMRICH PLANT	C	KRU
30125-501A	28	MI	125.5	B	MO	MISSOURI LIME CO	C	G
30127-101A	28	MI	127.1	B	MO	TOWER ROCK STONE CO	C	G
30127-001Z	28	MI	127.9	B	MO	SOUTHERN RIVER ROCK CO	C	G
30144-801A	28	MI	144.8	B	MO	USS AGRI-CHEMICALS INC	C	I
30145-901A	28	MI	145.9	B	MO	RIVER CEMENT CO	C	4
30150-001Z	28	MI	150.0	B	MO	BUSSEN QUARRY CO - GLEN PARK	C	G
30151-601A	28	MI	151.6	B	MO	ST JOSEPH LEAD CO	C	S
30161-803A	28	MI	161.4	B	MO	UNION ELECTRIC CO	C	E
30168-001A	28	MI	168.0	B	MO	BUSSEN TERMINAL	C	GHI
30168-501A	28	MI	168.5	B	MO	TRIANGLE REFINERIES	C	K
30179-976A	28	MI	172.0	B	MO	GREAT LAKES CARBON CORP	C	GG
30179-964A	28	MI	172.4	B	MO	DAVIS STREET SAND CO	C	G
30179-961A	28	MI	172.6	B	MO	FOWLES GRAIN	C	D

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TERMINAL LISTING, CLASSIFICATION AND CARGO TYPES
BY POOL

PORT-TERM CODE	POOL	RIV NAME	RIV MILE	BANK CODE	STATE	TERMINAL NAME	CLASSIFICATION	CARGO TYPES
30179-954A	28	MI	172.8	B	MO	ECONO-FLO FLOUR	C	O
30179-940A	28	MI	173.3	B	MO	UNION CARBIDE CHEMICAL CO.	C	R
30179-936A	28	MI	173.4	B	MO	MARQUETTE CEMENT	C	4
30179-932A	28	MI	173.6	B	MO	CHEMTECH	C	R
30179-895A	28	MI	175.0	B	MO	REIDY TERMINAL INC	C	KS
30179-873A	28	MI	175.8	B	MO	TEXACO INC	C	K
30179-134A	28	MI	176.0	B	MO	MOBIL OIL - ST LOUIS LUBE PLANT	C	K
30179-863A	28	MI	176.0	B	MO	J D STREETT & CO INC	C	K
30179-867A	28	MI	176.0	B	MO	GULF OIL CO	C	JK
30179-861A	28	MI	176.2	B	MO	RIVER CEMENT CO	C	4
30179-858A	28	MI	176.3	B	MO	INDUSTRIAL SUGARS	C	P
30179-860A	28	MI	176.3	B	MO	MARTIN OIL CO	C	K
30179-827A	28	MI	177.6	B	MO	MISSOURI ILLINOIS MATERIAL CO	C	GI
30179-822A	28	MI	177.8	B	MO	SLAY BULK TERMINAL	C	IR
30177-803A	28	MI	178.6	B	MO	SOUTH MUNICIPAL DOCK	B	A
30179-793A	28	MI	178.8	B	MO	WOODTREATING CHEM CO	C	DR
30179-798A	28	MI	178.8	B	MO	RUTGER STREET SAND COMPANY	C	G
30179-753A	28	MI	181.0	B	MO	APEX OIL COMPANY	C	K
30179-736A	28	MI	181.2	B	MO	UNIVERSAL ATLAS CEMENT	C	4
30179-732A	28	MI	181.3	B	MO	MAJESTIC BLDG MATERIAL CORP	C	GE
30179-724A	28	MI	181.7	B	MO	CITY OF ST LOUIS N MARKET ST DK	B	A
30179-710A	28	MI	182.1	B	MO	BASIC MATERIALS	C	GI
30177-704A	28	MI	182.4	B	MO	PACIFIC VEGETABLE OIL	C	S
30179-664A	28	MI	183.8	B	MO	ST LOUIS GRAIN CORP	C	O
30082-402A	29	MI	082.4	A	IL	BUNGE CORP	C	O
30085-001Z	29	MI	085.6	A	IL	JACKSON COUNTY RIVER TERMINAL	C	ES
30098-001Z	29	MI	098.5	A	IL	CORA COAL TRANSFER TERMINAL	C	E
30101-001Z	29	MI	101.0	A	IL	FORD DOCK	C	E
30107-802A	29	MI	107.8	A	IL	SOUTHERN ILLINOIS SAND CO INC	C	EFGHI
30108-702A	29	MI	108.7	A	IL	CONAGRA INC	C	O
30001-801A	29	MI	002.1	B	MO	ILLINOIS WATERWAY OIL TERMINAL	C	JKR
30002-501A	29	MI	002.5	B	MO	BIRDS POINT TERMINAL INC	C	O
30028-201A	29	MI	028.2	B	MO	BUNGE CORP	C	D
30028-501A	29	MI	028.5	B	MO	CARGILL INC-BUFFALO IS TERM	C	O
30046-001A	29	MI	046.1	B	MO	WEST LAKE QUARRY & MATERIAL CO	C	G
30049-801A	29	MI	047.8	B	MO	MARQUETTE CEMENT	C	4
30049-901A	29	MI	050.3	B	MO	SHELL OIL COMPANY	C	K
30050-501A	29	MI	050.5	B	MO	CAPE GRAIN COMPANY	C	O
30050-001A	29	MI	050.9	B	MO	STANDARD OIL	C	K
30053-001A	29	MI	053.0	B	MO	CAPE GIRARDEAU SAND CO	C	G
30054-601A	29	MI	054.6	B	MO	ERLBACHER BROS TERMINAL	C	IK
30070-601A	29	MI	071.0	B	MO	WEST LAKE QUARRY & MATERIAL CO	C	G
30081-401A	29	MI	081.4	B	MO	EAST PERRY LUMBER CO	C	D
32907-915A	30	ME	008.5	B	MN	BLACKDOG PLANT NSP	C	E
32907-888B	30	ME	011.1	B	MN	PEAVEY GRAIN CO	C	O
32907-872A	30	ME	012.7	B	MN	PORT CARGILL	C	ADIGT

TERMINAL LISTING, CLASSIFICATION AND CARGO TYPES
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PORT-TERM CODE	POOL	RIV NAME	RIV MILE	BANK CODE	STATE	TERMINAL NAME	CLASSIFICATION	CARGO TYPES
32907-856A	30	ME	014.4	B	MN	PORT RICHARDS	C	JKLM
32907-854A	30	ME	014.5	B	MN	PORT BUNGE	C	O
32907-851A	30	ME	014.7	B	MN	PORT CONTINENTAL	C	O
32907-778A	30	ME	021.8	B	MN	PEAVEY GRAIN CO	C	O
32905-009A	31	SC	021.6	B	MN	NORTHERN STATES POWER CO	C	E
32903-010A	32	BK	000.4	A	WI	MOBIL OIL CORP	C	K
32903-984A	32	BK	000.7	A	WI	FRENCH ISLAND PLANT	C	K
32903-970A	32	BK	001.0	A	WI	ALTER COMPANY	C	GVEO
32903-027A	32	BK	001.1	A	WI	MIDWEST INDUSTRIAL FUEL, INC.	C	K
32903-027D	32	BK	001.1	A	WI	INDUSTRIAL MOLASSES DIV.	C	T
30117-804A	33	KS	024.0	A	IL	KRPD #1	C	E
77644-689A	34	CC	297.5	A	IL	UNION OIL CHICAGO REF BARGE DK	C	K
77644-001I	34	CC	298.0	A	IL	SCARPELLI MATERIALS	C	EGI
77644-728A	34	CC	300.4	A	IL	TRI CENTRAL MARINE TERMINAL	C	IK
77644-736A	34	CC	301.0	A	IL	K A STEEL CHEMICALS INC	C	UR
77644-762A	34	CC	303.2	A	IL	NORTH AMERICAN CAR CORP TERM	C	IJKUR
77644-742A	34	CC	304.3	A	IL	DUNDEE CEMENT COMPANY	C	G
77644-763A	34	CC	305.7	A	IL	PUBLICKER CHEMICAL CO	C	R
77644-864A	34	CC	310.8	A	IL	SHELL OIL COMPANY	C	KR
77644-864B	34	CC	310.8	A	IL	ARGO TERMINAL CO	C	R
77644-870A	34	CC	311.1	A	IL	GATX TERMINALS CORP-ARGO TERM	C	KRU
77644-870B	34	CC	311.3	A	IL	GATX TERMINALS CORP-ARGO TERM	C	KRU
77644-870C	34	CC	311.6	A	IL	GATX TERMINALS CORP-ARGO TERM	C	KRU
77644-805A	34	CC	312.4	A	IL	LEHEIGH PORTLAND CEMENT	C	G
77644-894A	34	CC	312.5	A	IL	TRUMBULL ASPHALT COMPANY	C	5
77644-093A	34	CC	313.7	A	IL	LAKE RIVER TERMIALS INC	C	K
77644-089A	34	CC	314.0	A	IL	APEX OIL CO	C	K
77644-082A	34	CC	314.8	A	IL	MISSOURI PORTLAND CEMENT CO	C	4
77644-940A	34	CC	315.9	A	IL	CHEMICAL PETROLEUM EXCHANGE	C	K
77644-943A	34	CC	316.7	A	IL	WHITEWATER PETROLEUM TERMINALS	C	K
77644-945A	34	CC	316.9	A	IL	DEMERT & DOUGHERTY	C	S
77644-947A	34	CC	317.1	A	IL	MARINE OIL CO	C	K
77644-970B	34	CC	318.7	A	IL	TRIANGLE REFINERIES CORP	C	K
77644-970A	34	CC	318.8	A	IL	BELL OIL CO	C	K
77644-982A	34	CC	320.0	A	IL	YD 9 MATERIAL SERVICE	C	G
77644-986A	34	CC	320.2	A	IL	ALLIED OIL CO	C	K
77644-990B	34	CF	321.3	A	IL	MARINE TRANSIT CO TERMINAL	C	AS
77645-851A	34	CF	322.7	A	IL	JAY-BEE WAREHOUSE, INC	C	A
77643-870A	34	CV	322.3	A	IL	KNAPPEN MOLASSES COMPANY	C	T
77643-982A	34	CV	324.9	A	IL	COSDEN OIL & CHEMICAL	C	R
77644-377B	34	CC	292.6	B	IL	CARGILL	C	O
77644-375A	34	CC	292.8	B	IL	CONTINENTAL GRAIN COMPANY	C	O
77644-357A	34	CC	294.0	B	IL	YD61	C	GE
77644-337A	34	CC	296.0	B	IL	WILL COUNTY STATION	C	E
77644-695B	34	CC	299.3	B	IL	LEMONT SEAWAYS	C	GO
77644-251A	34	CC	300.9	B	IL	ARCOLE - STONE DOCK	C	G

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TERMINAL LISTING, CLASSIFICATION AND CARGO TYPES
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PORT-TERM CODE	POOL	RIV NAME	RIV MILE	BANK CODE	STATE	TERMINAL NAME	CLASSIFICATION	CARGO TYPES
77644-736B	34	CC	301.0	B	IL	NORTHERN PETROCHEMICAL CO	C	R
77644-471A	34	CC	308.4	B	IL	ASHLAND CHEMICAL COMP	C	JK
77644-065A	34	CC	310.5	B	IL	LAWNDALE LAGOON DOCK FACILITY	C	S
77644-119A	34	CC	312.4	B	IL	SUMMIT DOCK FACILITY	C	EG
77644-095A	34	CC	314.1	B	IL	LAKE RIVER TERMINALS INC	C	K
77644-091A	34	CC	314.2	B	IL	AMOCO-CHICAGO TERMINAL	C	K
77644-080A	34	CC	315.1	B	IL	RIDGELAND STATION	C	K
77644-065B	34	CC	315.7	B	IL	WEST-SOUTHWEST STW	B	IS
77644-055A	34	CC	316.8	B	IL	STICKNEY TERMINAL CORP	C	K
77644-053A	34	CC	317.3	B	IL	EDMIER DOCK	C	GVEF
77644-049A	34	CC	317.4	B	IL	CICERO COMPOUND PLANT CITGO	C	J
77644-048A	34	CC	317.5	B	IL	MOBIL OIL - CICERO LUBE PLANT	C	K
77644-031A	34	CC	318.7	B	IL	CRAWFORD STATION	C	E
77644-021A	34	CC	319.5	B	IL	APEX MOTOR FUEL COMPANY	C	K
77644-014A	34	CC	320.1	B	IL	PROLERIZED CHICAGO CORP	C	V
77645-745A	34	CD	322.8	B	IL	MATERIAL SERVICE YD 12	C	EG
77645-275A	34	CF	321.4	B	IL	COZZI IRON & METAL INC	C	V
77645-186A	34	CF	322.1	B	IL	CECO FISK ST STORAGE TERMINAL	C	E
77645-164B	34	CF	322.4	B	IL	FISK STATION	C	E
77645-133A	34	CF	323.2	B	IL	DIAMOND CRYSTAL SALT CO	C	G
77643-303A	34	CS	315.9	B	IL	UNION CARBIDE CORP	C	R
77643-274A	34	CS	316.5	B	IL	MARTIN OIL SERVICE INC	C	K
77643-264A	34	CS	316.8	B	IL	CLARK OIL - BLUE ISLAND	C	K
77643-197A	34	CS	319.1	B	IL	MATERIAL SERVICE YARD #5	C	G
77643-822A	34	CV	320.0	B	IL	RIVERDALE TERMINAL CORP	C	FH
77286-801A	35	IL	286.8	B	IL	MARINE TRANSIT CO	C	A
77287-301A	35	IL	287.3	B	IL	TABOR GRAIN CO - DIV ADM	C	Q
77276-401A	36	IL	275.5	A	IL	DURKEE FOODS DIV	C	S
77277-811A	36	IL	276.0	A	IL	DOW CHEMICAL - JOLIET PLANT	C	R
77277-702A	36	IL	277.7	A	IL	MOBIL CHEMICAL CO	C	S
77278-012A	36	IL	278.0	A	IL	MOBIL OIL CORPORATION DOCK	C	EK
77277-811B	36	IL	280.1	A	IL	STEPAN CHEMICAL CO-MILLSDALE	C	R
77284-502A	36	IL	284.5	A	IL	OLIN CHEMICALS	C	IRG
77277-111A	36	IL	278.7	B	IL	MEYER AGGREGATES DIV	C	G
77280-201A	36	IL	280.5	B	IL	AMOCO CHEMICAL	C	KR
77252-602A	37	IL	252.5	A	IL	PEAVEY GRAIN CO	C	Q
77252-502B	37	IL	253.0	A	IL	ANCHOR MARINE	C	QS
77253-802A	37	IL	253.8	A	IL	SENECA PORT OPERATING CO	B	R
77261-901A	37	IL	262.0	A	IL	MATERIAL SERVICE YARD 34	C	G
77265-002B	37	IL	265.6	A	IL	COLLINS STATION #23	C	K
77270-202A	37	IL	270.4	A	IL	REICHOLD CHEMICAL CO	C	R
77270-501A	37	IL	270.5	A	IL	STOCKDALE FERTILIZER CO	C	I
77247-901A	37	IL	247.9	B	IL	PITTSBURGH-DESMOINES STEEL CO	C	H
77248-701A	37	IL	248.7	B	IL	ILLINOIS NITROGEN	C	IL
77249-911A	37	IL	249.0	B	IL	BEKER INDUSTRIES CORP	C	FIRSW
77252-511A	37	IL	252.5	B	IL	CONTINENTAL GRAIN COMPANY	C	Q

TERMINAL LISTING, CLASSIFICATION AND CARGO TYPES
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PORT-TERM CODE	POOL	RIV NAME	RIV MILE	BANK CODE	STATE	TERMINAL NAME	CLASSIFICATION	CARGO TYPES
77253-802B	37	IL	253.4	B	IL	CONTICARRIERS AND TERMINALS INC	C	EGIOR
77254-101A	37	IL	254.1	B	IL	JON-T CHEMICALS CO	C	I
77262-901B	37	IL	262.9	B	IL	TABOR GRAIN CO - DIV ADM	C	O
77263-131A	37	IL	263.1	B	IL	GROWMARK INC	C	O
77263-121A	37	IL	263.2	B	IL	CARGILL INC	C	O
77263-111A	37	IL	263.3	B	IL	CONTINENTAL GRAIN CO	C	O
77270-001A	37	IL	270.0	B	IL	NORTHERN PETROCHEMICAL CO	C	GR
77237-012A	38	IL	238.0	A	IL	TABOR GRAIN CO	C	O
77238-551A	38	IL	239.0	A	IL	CARGILL INC	C	O
77235-803A	38	IL	236.8	B	IL	PILLSBURY CO	C	EGO
77241-801A	38	IL	241.9	B	IL	DEKALB COUNTY EXPORTS INC	C	O
77243-511A	38	IL	243.2	B	IL	GARVEY GRAIN INTERNATIONAL	C	O
77244-101A	38	IL	244.1	B	IL	BORG WARNER CHEMICAL	C	R
77157-201A	39	IL	157.3	A	IL	AGRICO CHEM CO	C	R
77158-102A	39	IL	158.0	A	IL	MOBIL OIL - PEORIA TERMINAL	C	K
77158-112A	39	IL	158.1	A	IL	AMOCO OIL CO PEORIA TERMINAL	C	K
77158-301A	39	IL	158.3	A	IL	CENTRAL ILLINOIS DOCK CO	C	HIO
77158-301B	39	IL	158.3	A	IL	GROWMARK INC	C	O
77158-112B	39	IL	158.8	A	IL	HICKS OIL & GAS CO	C	K
77162-031A	39	IL	162.0	A	IL	CATERPILLAR TRACTOR CO	C	K
77162-031B	39	IL	162.0	A	IL	CATERPILLAR TRACTOR CO	C	K
77163-512A	39	IL	163.0	A	IL	GULF COAST GRAIN CO	C	O
77189-202A	39	IL	189.2	A	IL	CONTINENTAL GRAIN CO	C	O
77189-402A	39	IL	189.4	A	IL	GROWMARK INC	C	O
77207-207A	39	IL	207.5	A	IL	GROWMARK INC	C	O
77207-302A	39	IL	207.6	A	IL	CONTINENTAL GRAIN CO	C	O
77207-602A	39	IL	208.8	A	IL	MARINE TRANSIT, HENNEPIN TERM.	C	AH
77211-901A	39	IL	212.0	A	IL	ILLINOIS POWER COMPANY	C	E
77218-222A	39	IL	218.2	A	IL	CARGILL INC.	C	O
77157-901A	39	IL	157.9	B	IL	KEYSTONE STEEL & WIRE	C	FHKV
77160-211A	39	IL	160.3	B	IL	MARTIN OIL SERVICE MARINE TERM	C	K
77162-741A	39	IL	160.4	B	IL	PEORIA BARGE TERMINAL INC	C	EGHIR
77160-601A	39	IL	160.6	B	IL	JUBILEE MATERIALS CO	C	GA
77161-401A	39	IL	161.4	B	IL	TABOR GRAIN CO DIV ADM	C	OS
77180-311A	39	IL	180.3	B	IL	GULF COAST GRAIN CO	C	O
77181-001A	39	IL	181.0	B	IL	CHILLICOTHE DOCK	C	G
77195-711A	39	IL	195.8	B	IL	GULF COAST GRAIN CO	C	O
77195-701A	39	IL	197.6	B	IL	W R GRACE	C	R
77207-602B	39	IL	207.5	B	IL	CONSOLIDATED GRAIN & BARGE CO	C	OS
77218-311A	39	IL	218.0	B	IL	TABOR GRAIN CO	C	O
77218-211A	39	IL	218.3	B	IL	CONTINENTAL GRAIN CO	C	O
77221-201A	39	IL	221.2	B	IL	CF INDUSTRIES	C	IK
77221-311A	39	IL	221.3	B	IL	STANDARD TRANSMISSION CORP	C	K
77221-901A	39	IL	221.8	B	IL	MERTEL GRAVEL CO	C	EGHIO
77222-801A	39	IL	223.0	B	IL	INDUSTRIAL MOLASSES CO	C	T
77223-101A	39	IL	223.0	B	IL	PEAVEY GRAIN CO	C	O

TERMINAL LISTING, CLASSIFICATION AND CARGO TYPES BY POOL

PORT-TERM CODE	POOL	RIV NAME	RIV MILE	BANK CODE	STATE	TERMINAL NAME	CLASSIFICATION	CARGO TYPES
77223-011A	39	IL	223.2	B	IL	FOSTER GRANT CO	C	6
77223-201A	39	IL	223.2	B	IL	TABOR CO LASALLE TERMINAL	C	EGHIO
77229-100A	39	IL	229.0	B	IL	GULF COAST GRAIN CO	C	O
77088-202A	40	IL	088.2	A	IL	CONTINENTAL GRAIN CO	C	O
77088-412A	40	IL	088.4	A	IL	LOGSDON SAND & GRAVEL CO	C	DGH
77089-001A	40	IL	088.4	A	IL	MISSISSIPPI RIVER GRAIN ELEV	C	O
77118-502A	40	IL	118.5	A	IL	ILLINOIS POWER CO	C	E6
77119-002A	40	IL	119.0	A	IL	J.D. STREETT & CO. INC.	C	IK
77119-202A	40	IL	119.2	A	IL	HAVANA BARGE TERMINAL INC	C	OIS
77119-702A	40	IL	119.7	A	IL	GROWMARK INC	C	O
77119-812A	40	IL	119.8	A	IL	CONTINENTAL GRAIN CO	C	O
77119-902A	40	IL	120.5	A	IL	CARGILL INC	C	O
77120-832A	40	IL	121.5	A	IL	COMMONWEALTH EDISON COAL DOCKS	C	E
77152-612A	40	IL	149.0	A	IL	PEKIN FARMERS GRAIN COMPANY	C	O
77152-212A	40	IL	152.1	A	IL	SOURS GRAIN CO	C	OS
77152-612B	40	IL	152.8	A	IL	LOUIS DREYFUS CORP	C	O
77152-832A	40	IL	152.8	A	IL	MISSISSIPPI RIVER GRAIN ELEV	C	O
77090-901A	40	IL	090.9	B	IL	FARMERS TERMINAL GRAIN ELEVATOR	C	O
77091-611A	40	IL	091.6	B	IL	AMAX COAL COMPANY FREDERICKDOCK	C	E
77127-000A	40	IL	127.0	B	IL	LIVERPOOL STATION	C	S
77145-401A	40	IL	145.4	B	IL	GROWMARK, INC SUPPLY DIV	C	KR
77146-801A	40	IL	146.8	B	IL	KINGSTON RIVER TERMINAL INC	C	AEITH
77149-202A	40	IL	149.2	B	IL	NORTHERN PETROCHEMICAL COMPANY	C	I
77152-802A	40	IL	152.8	B	IL	SHELL OIL - ASPHALT PLANT	C	5
77152-832B	40	IL	152.8	B	IL	CARGILL INC	C	O
77154-101A	40	IL	154.2	B	IL	CARGO CARRIERS INC	C	GI
77154-913A	40	IL	154.9	B	IL	MISSOURI PORTLAND CEMENT CO	C	4
77154-911A	40	IL	155.1	B	IL	CLARK OIL & REFINING CO	C	K
77065-002A	41	IL	065.5	A	IL	NAPLES TERMINAL COMPANY	C	EGIOH
77066-002A	41	IL	066.0	A	IL	GROWMARK INC	C	O
77069-502A	41	IL	069.5	A	IL	ESTECH GENERAL CHEMICAL CORP	C	I
77070-602A	41	IL.	070.6	A	IL	MEREDOSIA POWCR STATION	C	EK
77071-202A	41	IL	071.2	A	IL	CARGILL INC	C	O
77020-701A	41	IL	020.7	B	IL	JERSEY COUNTY GRAIN CO	C	O
77021-011A	41	IL	021.0	B	IL	JERSEY COUNTY GRAIN CO	C	O
77022-401A	41	IL	022.4	B	IL	EAST PERRY LUMBER CO	C	D
77042-711A	41	IL	042.7	B	IL	PEARL STA.	C	E
77055-301A	41	IL	055.7	B	IL	THE PILLSBURY COMPANY	C	GIO
77071-701A	41	IL	071.7	B	IL	MEREDOSIA TERMINAL	C	EGIKS

APPENDIX B

ANNUAL THROUGHPUT CAPACITIES SUMMARY

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FOOTNOTES TO APPENDIX B

The following list provides a description of the commodity groups used in Appendix B. Also the letter "L", "D", and "T" refer to "Loaded", "Discharged", and "Total".

Capacity Commodity Group	Commodity Group Description
1	Cash Grains
2	Iron and Non-ferrous Metal Ores and Concentrates
3	Bauxite and Aluminum Ores
4	Coal and Coal Products
5	Crude Petroleum
6	Petroleum Products and Lubricants
7	Industrial Chemicals
8	Agricultural Chemicals/Fertilizers
9	Milled Grain and Agricultural Products, NEC
10	Lumber and Wood Products
11	Sugar and Molasses
12	Primary Ferrous and Non-ferrous Metal Products
13	Fabricated Metal Products
14	Scrap Metals
15	Construction Materials
16	Mining Products, NEC
17	Non-durable Manufactures NEC, including Processed Foods
18	Durable Manufactures, NEC
19	Waste and Scrap Materials, Miscellaneous
20	Waterway Improvement and Government Materials

APPENDIX B

07/21/81

ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

PAGE [redacted]

POOL 1

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1,9	L	331	555	886
	D	0	1510	1510
	T	331	2065	2396
2	L	0	634	634
	D	0	564	564
	T	0	1198	1198
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	1010	1010
	D	120	564	684
	T	120	1574	1694
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	405	9	414
	D	808	72	880
	T	1213	81	1294
7	L	0	0	0
	D	0	0	0
	T	0	0	0
8	L	0	70	70
	D	0	0	0
	T	0	70	70
13,17,18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	0	1083	1083
	D	0	1083	1083
	T	0	2164	2164
14	L	0	162	162
	D	0	162	162
	T	0	323	323
15-16,19-20	L	0	1939	1939
	D	0	774	774
	T	0	2713	2713
LPG	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	736	5462	6198
	D	928	4729	5657
	T	1664	10188	11852

NOTE: The total capacity figure shown on page B-38 does not include the 41,744,000 tons which were added to reflect the direct transfer operations for selected grain and sand and gravel facilities. (See Page 21)

```
07/21/81                    ANNUAL THRUPUT CAPACITIES SUMMARY                      PAGE [redacted]
                            BY COMMODITY GROUP AND RIVER BANK
                               ( THOUSANDS OF SHORT TONS )

                                        POOL     2 .
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 COMMODITY                     LEFT                       RIGHT                    TOTAL
  GROUPS                       BANK                        BANK
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
          1,9  L               2230                         740                     2970
               D                  0                           0                        0
               T               2230                         740                     2970
            2  L                  0                          19                       19
               D                  0                           0                        0
               T                  0                          19                       19
            3  L                  0                           0                        0
               D                  0                           0                        0
               T                  0                           0                        0
            4  L               1808                        1108                     2916
               D               1479                         739                     2218
               T               3287                        1847                     5134
            5  L                454                         615                     1069
               D               1136                         615                     1751
               T               1590                        1229                     2819
            6  L              16557                        2278                    18835
               D              10119                         482                    10601
               T              26676                        2760                    29436
            7  L                  0                         299                      299
               D                950                           0                      950
               T                950                         299                     1249
            8  L               5309                        1654                     6963
               D               4741                        1462                     6203
               T              10050                        3116                    13166
     13,17,18  L                  0                           0                        0
               D                  0                           0                        0
               T                  0                           0                        0
           10  L                  0                           0                        0
               D                  0                           0                        0
               T                  0                           0                        0
           11  L                380                           0                      380
               D                315                           0                      315
               T                695                           0                      695
           12  L                790                         425                     1215
               D                790                         425                     1215
               T               1579                         850                     2429
           14  L                  0                         742                      742
               D                  0                         742                      742
               T                  0                        1483                     1483
 15-16,17-20   L               4189                         404                     4593
               D               3081                         263                     3344
               T               7270                         667                     7937
           15  L                  0                           0                        0
               D                  0                           0                        0
               T                  0                           0                        0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        TOTAL  L              31717                        8284                    40001
               D              22611                        4728                    27339
               T              54327                       13010                    67337
```

ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 3

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1,9	L	0	0	0
	D	0	0	0
	T	0	0	0
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	0	0
	D	0	0	0
	T	0	0	0
5	L	0	279	279
	D	0	187	187
	T	0	466	466
6	L	0	213	213
	D	0	143	143
	T	0	356	356
7	L	0	0	0
	D	0	0	0
	T	0	0	0
8	L	1320	0	1320
	D	0	0	0
	T	1320	0	1320
13,17,18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	0	0	0
	D	0	0	0
	T	0	0	0
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	0	0	0
	D	0	0	0
	T	0	0	0
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	1320	492	2012
	D	0	330	330
	T	1320	822	2342

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07/21/81                 ANNUAL THRUPUT CAPACITIES SUMMARY                          PAGE  [redacted]
                         BY COMMODITY GROUP AND RIVER BANK
                           ( THOUSANDS OF SHORT TONS )

                                     POOL      4 .
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
  COMMODITY                   LEFT                 RIGHT                TOTAL
   GROUPS                     BANK                 BANK
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
          1,9  L                 0                   881                  881
               D                 0                     0                    0
               T                 0                   881                  881
            2  L                 0                     0                    0
               D                 0                     0                    0
               T                 0                     0                    0
            3  L                 0                     0                    0
               D                 0                     0                    0
               T                 0                     0                    0
            4  L                 0                   239                  239
               D                 0                    56                   56
               T                 0                   294                  294
            5  L                 0                     0                    0
               D                 0                     0                    0
               T                 0                     0                    0
            6  L                 0                     0                    0
               D                 0                     0                    0
               T                 0                     0                    0
            7  L                 0                     0                    0
               D                 0                     0                    0
               T                 0                     0                    0
            8  L                 0                     0                    0
               D                 0                     0                    0
               T                 0                     0                    0
     13,17,18  L                 0                     0                    0
               D                 0                     0                    0
               T                 0                     0                    0
           10  L                 0                     0                    0
               D                 0                     0                    0
               T                 0                     0                    0
          11   L                 0                     0                    0
               D                 0                     0                    0
               T                 0                     0                    0
           12  L                 0                    56                   56
               D                 0                    56                   56
               T                 0                   111                  111
           14  L                 0                    11                   11
               D                 0                    11                   11
               T                 0                    22                   22
  15-16,19-20  L                 0                    56                   56
               D                 0                    56                   56
               T                 0                   111                  111
           15  L                 0                     0                    0
               D                 0                     0                    0
               T                 0                     0                    0
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
        TOTAL  L                 0                  1243                 1243
               D                 0                   179                  179
               T                 0                  1419                 1419
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MOORE BUSINESS FORMS, INC. HO 11"

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ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 5 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1,9	L	0	0	0
	D	0	0	0
	T	0	0	0
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	0	0
	D	4121	0	4121
	T	4121	0	4121
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	0	0
	D	0	0	0
	T	0	0	0
7	L	0	0	0
	D	0	0	0
	T	0	0	0
8	L	0	0	0
	D	0	0	0
	T	0	0	0
13,17,18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	0	0	0
	D	0	0	0
	T	0	0	0
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	0	0	0
	D	0	0	0
	T	0	0	0
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	0	0	0
	D	4121	0	4121
	T	4121	0	4121

MOORE BUSINESS FORMS, INC. HO 11"

ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 6 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1,9	L	0	809	809
	D	0	495	495
	T	0	1304	1304
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	419	419
	D	0	244	244
	T	0	663	663
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	808	808
	D	0	485	485
	T	0	1293	1293
7	L	0	254	254
	D	0	254	254
	T	0	507	507
8	L	0	457	457
	D	0	441	441
	T	0	898	898
13,17,18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	0	0	0
	D	0	0	0
	T	0	0	0
14	L	0	50	50
	D	0	50	50
	T	0	99	99
15-16,19-20	L	0	0	0
	D	0	95	95
	T	0	95	95
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	0	2797	2797
	D	0	2064	2064
	T	0	4859	4859

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07/21/81                    ANNUAL THRUPUT CAPACITIES SUMMARY                        PAGE   [redacted]
                            BY COMMODITY GROUP AND RIVER BANK
                              ( THOUSANDS OF SHORT TONS )

                                      POOL    8.
= = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = =
 COMMODITY                    LEFT                     RIGHT                        TOTAL
  GROUPS                      BANK                      BANK
= = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = =
        1,9  L                 140                       0                          140
             D                 112                       0                          112
             T                 252                       0                          252
          2  L                   0                       0                            0
             D                   0                       0                            0
             T                   0                       0                            0
          3  L                   0                       0                            0
             D                   0                       0                            0
             T                   0                       0                            0
          4  L                  28                       0                           28
             D                  28                       0                           28
             T                  55                       0                           55
          5  L                   0                       0                            0
             D                   0                       0                            0
             T                   0                       0                            0
          6  L                   0                       0                            0
             D                   0                       0                            0
             T                   0                       0                            0
          7  L                  28                       0                           28
             D                  28                       0                           28
             T                  55                       0                           55
          8  L                   0                       0                            0
             D                   0                       0                            0
             T                   0                       0                            0
   13,17,18  L                   0                       0                            0
             D                   0                       0                            0
             T                   0                       0                            0
         10  L                   0                       0                            0
             D                   0                       0                            0
             T                   0                       0                            0
         11  L                   0                       0                            0
             D                   0                       0                            0
             T                   0                       0                            0
         12  L                   0                       0                            0
             D                   0                       0                            0
             T                   0                       0                            0
         14  L                   0                       0                            0
             D                   0                       0                            0
             T                   0                       0                            0
15-16,19-20  L                 230                       0                          230
             D                 230                       0                          230
             T                 459                       0                          459
         15  L                   0                       0                            0
             D                   0                       0                            0
             T                   0                       0                            0
= = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = =
      TOTAL  L                 426                       0                          426
             D                 398                       0                          398
             T                 821                       0                          821
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ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

PAGE [redacted]

POOL 9 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1,9	L	0	0	0
	D	0	0	0
	T	0	0	0
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	0	0
	D	4305	1686	5991
	T	4305	1686	5991
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	0	0
	D	0	0	0
	T	0	0	0
7	L	0	0	0
	D	0	0	0
	T	0	0	0
8	L	0	0	0
	D	0	0	0
	T	0	0	0
13,17,18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	0	0	0
	D	0	0	0
	T	0	0	0
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	0	0	0
	D	0	0	0
	T	0	0	0
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	0	0	0
	D	4305	1686	5991
	T	4305	1686	5991

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ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 10

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1, 9	L	0	292	292
	D	0	53	53
	T	0	315	345
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	24	0	24
	D	98	0	98
	T	122	0	122
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	0	0
	D	0	0	0
	T	0	0	0
7	L	0	0	0
	D	0	0	0
	T	0	0	0
8	L	28	0	28
	D	28	0	28
	T	56	0	56
13, 17, 18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	0	0	0
	D	0	0	0
	T	0	0	0
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16, 19-20	L	137	0	137
	D	167	0	167
	T	303	0	303
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	189	292	481
	D	293	53	346
	T	481	345	826

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07/21/81                          ANNUAL THRUPUT CAPACITIES SUMMARY
                                 BY COMMODITY GROUP AND RIVER BANK
                                    ( THOUSANDS OF SHORT TONS )

                                          POOL     11 .
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
   COMMODITY                       LEFT                          RIGHT                         TOTAL
    GROUPS                         BANK                           BANK
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
          1,9  L                      0                              0                             0
               D                      0                              0                             0
               T                      0                              0                             0
            2  L                      0                              0                             0
               D                      0                              0                             0
               T                      0                              0                             0
            3  L                      0                              0                             0
               D                      0                              0                             0
               T                      0                              0                             0
            4  L                    333                              0                           333
               D                    929                              0                           929
               T                   1262                              0                          1262
            5  L                      0                              0                             0
               D                      0                              0                             0
               T                      0                              0                             0
            6  L                      0                              0                             0
               D                      0                              0                             0
               T                      0                              0                             0
            7  L                    121                              0                           121
               D                    252                              0                           252
               T                    373                              0                           373
            8  L                      0                              0                             0
               D                      0                              0                             0
               T                      0                              0                             0
     13,17,18  L                      0                              0                             0
               D                      0                              0                             0
               T                      0                              0                             0
           10  L                      0                              0                             0
               D                      0                              0                             0
               T                      0                              0                             0
          11   L                      0                              0                             0
               D                      0                              0                             0
               T                      0                              0                             0
           12  L                      0                              0                             0
               D                      0                              0                             0
               T                      0                              0                             0
           14  L                      0                              0                             0
               D                      0                              0                             0
               T                      0                              0                             0
  15-16,19-20  L                      0                              0                             0
               D                      0                              0                             0
               T                      0                              0                             0
           15  L                      0                              0                             0
               D                      0                              0                             0
               T                      0                              0                             0
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
       TOTAL   L                    434                              0                           434
               D                   1181                              0                          1181
               T                   1635                              0                          1635
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ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 12 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1,9	L	0	492	492
	D	0	78	78
	T	0	570	570
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	0	0
	D	0	493	493
	T	0	493	493
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	0	0
	D	0	1876	1876
	T	0	1876	1876
7	L	0	543	543
	D	0	1489	1489
	T	0	2032	2032
8	L	0	814	814
	D	0	1673	1673
	T	0	2486	2486
13,17,18	L	0	49	49
	D	0	49	49
	T	0	96	96
10	L	0	44	44
	D	0	44	44
	T	0	87	87
11	L	0	25	25
	D	0	50	50
	T	0	75	75
12	L	0	116	116
	D	0	116	116
	T	0	231	231
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	0	2043	2043
	D	0	1996	1996
	T	0	4039	4039
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	0	4126	4126
	D	0	7864	7864
	T	0	11985	11985

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07/21/81                 ANNUAL THRUPUT CAPACITIES SUMMARY                         PAGE [redacted]
                         BY COMMODITY GROUP AND RIVER BANK
                           ( THOUSANDS OF SHORT TONS )

                                  POOL     14 .
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
  COMMODITY                     LEFT                RIGHT                 TOTAL
   GROUPS                       BANK                 BANK
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
        1,9   L                  434                  347                   781
              D                    0                    0                     0
              T                  434                  347                   781
          2   L                    0                    0                     0
              D                    0                    0                     0
              T                    0                    0                     0
          3   L                    0                    0                     0
              D                    0                    0                     0
              T                    0                    0                     0
          4   L                    0                  570                   570
              D                    0                 1316                  1316
              T                    0                 1886                  1886
          5   L                    0                    0                     0
              D                    0                    0                     0
              T                    0                    0                     0
          6   L                    0                    0                     0
              D                  143                 1209                  1352
              T                  143                 1209                  1352
          7   L                    0                   52                    52
              D                   30                 1798                  1828
              T                   30                 1850                  1880
          8   L                    0                  206                   206
              D                   77                   99                   176
              T                   77                  305                   382
   13,17,18   L                    0                    8                     8
              D                    0                    8                     8
              T                    0                   15                    15
         10   L                    0                   13                    13
              D                    0                   13                    13
              T                    0                   25                    25
         11   L                    0                    0                     0
              D                    0                    0                     0
              T                    0                    0                     0
         12   L                    0                   33                    33
              D                    0                   33                    33
              T                    0                   65                    65
         14   L                    0                    0                     0
              D                    0                    0                     0
              T                    0                    0                     0
15-16,19-20   L                    0                  654                   654
              D                    0                  647                   647
              T                    0                 1301                  1301
         15   L                    0                    0                     0
              D                    0                    0                     0
              T                    0                    0                     0
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
      TOTAL   L                  434                 1883                  2317
              D                  250                 5123                  5373
              T                  684                 7003                  7687
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                        BY COMMODITY GROUP AND RIVER BANK
                           ( THOUSANDS OF SHORT TONS )

                                   POOL    15 .
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 COMMODITY                   LEFT                 RIGHT                TOTAL
  GROUPS                     BANK                  BANK
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        1,9  L                  0                    73                   73
             D                  0                     0                    0
             T                  0                    73                   73
          2  L                  0                     0                    0
             D                  0                     0                    0
             T                  0                     0                    0
          3  L                  0                     0                    0
             D                  0                     0                    0
             T                  0                     0                    0
          4  L                  0                     0                    0
             D                  0                     0                    0
             T                  0                     0                    0
          5  L                  0                     0                    0
             D                  0                     0                    0
             T                  0                     0                    0
          6  L                  0                   308                  308
             D                  0                  7483                 7483
             T                  0                  7791                 7791
          7  L                  0                     0                    0
             D                  0                     0                    0
             T                  0                     0                    0
          8  L                  0                     0                    0
             D                  0                     0                    0
             T                  0                     0                    0
   13,17,18  L                  0                     0                    0
             D                  0                     0                    0
             T                  0                     0                    0
         10  L                  0                     0                    0
             D                  0                     0                    0
             T                  0                     0                    0
         11  L                  0                     0                    0
             D                  0                     0                    0
             T                  0                     0                    0
         12  L                  0                     0                    0
             D                  0                     0                    0
             T                  0                     0                    0
         14  L                  0                   268                  268
             D                  0                   268                  268
             T                  0                   536                  536
15-16,19-20  L                  0                   706                  706
             D                  0                   991                  991
             T                  0                  1696                 1696
         15  L                  0                     0                    0
             D                  0                     0                    0
             T                  0                     0                    0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
      TOTAL  L                  0                  1355                 1355
             D                  0                  8742                 8742
             T                  0                 10096                10096
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ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 16 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1.9	L	0	1996	1996
	D	0	1353	1353
	T	0	3349	3349
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	1642	1642
	D	0	427	427
	T	0	2069	2069
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	0	0
	D	0	1041	1041
	T	0	1041	1041
7	L	61	0	61
	D	61	798	859
	T	122	798	920
8	L	37	185	222
	D	30	8	38
	T	67	193	260
13,17,18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	19	329	348
	D	19	329	348
	T	38	658	696
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	50	0	50
	D	50	0	50
	T	99	0	99
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	169	941	1110
	D	139	125	264
	T	308	1065	1373
15	L	16	0	16
	D	13	0	13
	T	29	0	29
TOTAL	L	352	5093	5445
	D	312	4081	4393
	T	663	9173	9836

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ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 17

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1,9	L	0	331	331
	D	0	271	271
	T	0	602	602
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	0	0
	D	0	618	618
	T	0	618	618
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	0	0
	D	0	0	0
	T	0	0	0
7	L	0	568	568
	D	0	297	297
	T	0	865	865
8	L	0	176	176
	D	0	178	178
	T	0	354	354
13,17,18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	10	10
	D	0	3	3
	T	0	13	13
12	L	0	0	0
	D	0	0	0
	T	0	0	0
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	0	143	143
	D	0	117	117
	T	0	260	260
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	0	1228	1228
	D	0	1484	1484
	T	0	2712	2712

ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 18 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1,9	L	236	481	717
	D	0	0	0
	T	236	481	717
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	0	0
	D	0	0	0
	T	0	0	0
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	0	0
	D	0	0	0
	T	0	0	0
7	L	0	0	0
	D	0	0	0
	T	0	0	0
8	L	0	0	0
	D	0	0	0
	T	0	0	0
13,17,18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	0	0	0
	D	0	0	0
	T	0	0	0
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	0	0	0
	D	0	0	0
	T	0	0	0
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	236	481	717
	D	0	0	0
	T	236	481	717

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                           BY COMMODITY GROUP AND RIVER BANK
                              ( THOUSANDS OF SHORT TONS )

                                      POOL     19 .
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
  COMMODITY                   LEFT                      RIGHT                          TOTAL
   GROUPS                     BANK                      BANK
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
        1,9  L                1526                      1204                          2730
             D                   0                        80                            80
             T                1526                      1284                          2810
          2  L                   0                         0                             0
             D                   0                         0                             0
             T                   0                         0                             0
          3  L                   0                         0                             0
             D                   0                         0                             0
             T                   0                         0                             0
          4  L                   0                       511                           511
             D                   0                       421                           421
             T                   0                       932                           932
          5  L                   0                         0                             0
             D                   0                         0                             0
             T                   0                         0                             0
          6  L                   0                         9                             9
             D                   0                        81                            81
             T                   0                        90                            90
          7  L                 561                      1101                          1662
             D                 446                      1101                          1547
             T                1007                      2201                          3208
          8  L                   0                       231                           231
             D                   0                      1237                          1237
             T                   0                      1468                          1468
   13,17,18  L                   0                       294                           294
             D                   0                       294                           294
             T                   0                       587                           587
         10  L                   0                         0                             0
             D                   0                         0                             0
             T                   0                         0                             0
        11   L                   0                         0                             0
             D                   0                         0                             0
             T                   0                         0                             0
         12  L                   0                       157                           157
             D                   0                       157                           157
             T                   0                       314                           314
         14  L                   0                         0                             0
             D                   0                         0                             0
             T                   0                         0                             0
15-16,19-20  L                   0                      1243                          1243
             D                   0                       427                           427
             T                   0                      1670                          1670
         15  L                   0                         0                             0
             D                   0                         0                             0
             T                   0                         0                             0
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
      TOTAL  L                2087                      4730                          6837
             D                 446                      3798                          4244
             T                2533                      8546                         11079
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ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 20

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1,9	L	1177	62	1239
	D	102	0	102
	T	1279	62	1341
2	L	0	0	0
	D	0	70	70
	T	0	70	70
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	0	0
	D	0	0	0
	T	0	0	0
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	0	0
	D	0	0	0
	T	0	0	0
7	L	0	0	0
	D	0	0	0
	T	0	0	0
8	L	0	0	0
	D	0	0	0
	T	0	0	0
13,17,18	L	0	9	9
	D	0	9	9
	T	0	17	17
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	0	38	38
	D	0	38	38
	T	0	76	76
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	0	0	0
	D	0	0	0
	T	0	0	0
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	1177	109	1286
	D	102	117	219
	T	1279	225	1504

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ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 21

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1.9	L	0	554	554
	D	0	0	0
	T	0	554	554
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	0	0
	D	0	0	0
	T	0	0	0
5	L	0	54	54
	D	0	0	0
	T	0	54	54
6	L	0	1607	1607
	D	0	0	0
	T	0	1607	1607
7	L	0	0	0
	D	394	0	394
	T	394	0	394
8	L	0	0	0
	D	0	0	0
	T	0	0	0
13,17,18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	0	0	0
	D	0	0	0
	T	0	0	0
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	0	0	0
	D	394	0	394
	T	394	0	394
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	0	2215	2215
	D	788	0	788
	T	788	2215	3003

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07/21/81                ANNUAL THRUPUT CAPACITIES SUMMARY                    PAGE [redacted]
                        BY COMMODITY GROUP AND RIVER BANK
                           ( THOUSANDS OF SHORT TONS )

                                  POOL    22
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
   COMMODITY                   LEFT                RIGHT               TOTAL
    GROUPS                     BANK                BANK
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
          1,9  L                752                 402                1154
               D                  0                   0                   0
               T                752                 402                1154
            2  L                  0                   0                   0
               D                  0                   0                   0
               T                  0                   0                   0
            3  L                  0                   0                   0
               D                  0                   0                   0
               T                  0                   0                   0
            4  L                  0                 318                 318
               D                  0                   0                   0
               T                  0                 318                 318
            5  L                  0                 120                 120
               D                  0                   0                   0
               T                  0                 120                 120
            6  L                  0                   0                   0
               D                  0                   0                   0
               T                  0                   0                   0
            7  L                  0                 176                 176
               D                  0                   0                   0
               T                  0                 176                 176
            8  L                  0                   0                   0
               D                  0                   0                   0
               T                  0                   0                   0
     13,17,18  L                  0                   0                   0
               D                  0                   0                   0
               T                  0                   0                   0
           10  L                  0                   0                   0
               D                  0                   0                   0
               T                  0                   0                   0
           11  L                  0                   0                   0
               D                  0                   0                   0
               T                  0                   0                   0
           12  L                  0                   0                   0
               D                  0                   0                   0
               T                  0                   0                   0
           14  L                  0                   0                   0
               D                  0                   0                   0
               T                  0                   0                   0
  15-16,19-20  L                  0                 101                 101
               D                  0                   0                   0
               T                  0                 101                 101
           15  L                  0                   0                   0
               D                  0                   0                   0
               T                  0                   0                   0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        TOTAL  L                752                1117                1869
               D                  0                   0                   0
               T                752                1117                1869
```

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                               BY COMMODITY GROUP AND RIVER BANK
                                  ( THOUSANDS OF SHORT TONS )

                                          POOL     24 .
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
  COMMODITY                       LEFT                     RIGHT                     TOTAL
   GROUPS                         BANK                     BANK
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
         1,9    L                   0                         0                          0
                D                   0                         0                          0
                T                   0                         0                          0
           2    L                   0                         0                          0
                D                   0                         0                          0
                T                   0                         0                          0
           3    L                   0                         0                          0
                D                   0                         0                          0
                T                   0                         0                          0
           4    L                   0                         0                          0
                D                   0                         0                          0
                T                   0                         0                          0
           5    L                   0                         0                          0
                D                   0                         0                          0
                T                   0                         0                          0
           6    L                   0                         0                          0
                D                   0                         0                          0
                T                   0                         0                          0
           7    L                   0                        53                         53
                D                   0                       107                        107
                T                   0                       160                        160
           8    L                   0                        88                         88
                D                   0                       177                        177
                T                   0                       265                        265
    13,17,18    L                   0                         0                          0
                D                   0                         0                          0
                T                   0                         0                          0
          10    L                   0                         0                          0
                D                   0                         0                          0
                T                   0                         0                          0
          11    L                   0                         0                          0
                D                   0                         0                          0
                T                   0                         0                          0
          12    L                   0                         0                          0
                D                   0                         0                          0
                T                   0                         0                          0
          14    L                   0                         0                          0
                D                   0                         0                          0
                T                   0                         0                          0
 15-16,19-20    L                   0                         0                          0
                D                   0                         0                          0
                T                   0                         0                          0
          15    L                   0                         0                          0
                D                   0                         0                          0
                T                   0                         0                          0
 * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
       TOTAL    L                   0                       141                        141
                D                   0                       284                        284
                T                   0                       425                        425
```

ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 26 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1, 9	L	2281	54	2335
	D	186	43	229
	T	2467	97	2564
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	0	0
	D	0	0	0
	T	0	0	0
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	0	0
	D	0	0	0
	T	0	0	0
7	L	95	0	95
	D	43	0	43
	T	137	0	137
8	L	0	0	0
	D	0	0	0
	T	0	0	0
13, 17, 18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	376	0	376
	D	376	0	376
	T	750	0	750
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16, 19-20	L	997	0	997
	D	812	0	812
	T	1809	0	1809
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	3749	54	3803
	D	1417	43	1460
	T	5163	97	5260

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ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

PAGE [redacted]

POOL 27 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1.9	L	0	0	0
	D	0	0	0
	T	0	0	0
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	936	0	936
	D	291	0	291
	T	1227	0	1227
5	L	1260	0	1260
	D	503	0	503
	T	1763	0	1763
6	L	8308	0	8308
	D	3506	0	3506
	T	11814	0	11814
7	L	0	0	0
	D	0	0	0
	T	0	0	0
8	L	81	0	81
	D	24	0	24
	T	105	0	105
13, 17, 18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	240	0	240
	D	240	0	240
	T	477	0	477
14	L	58	0	58
	D	58	0	56
	T	114	0	114
15-16, 19-20	L	3	0	3
	D	3	0	3
	T	6	0	6
15	L	0	718	718
	D	0	0	0
	T	0	718	718
TOTAL	L	10886	718	11604
	D	4625	0	4625
	T	15506	718	16224

ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 28 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1,9	L	305	2348	2653
	D	0	242	242
	T	305	2590	2895
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	1	1
	T	0	1	1
4	L	4618	0	4618
	D	22	2164	2186
	T	4640	2164	6804
5	L	0	0	0
	D	0	804	804
	T	0	804	804
6	L	3	6465	6468
	D	1159	1681	2840
	T	1162	8146	9308
7	L	8	4526	4534
	D	17	2143	2160
	T	25	6667	6692
8	L	32	160	192
	D	0	222	222
	T	32	382	414
13,17,18	L	0	319	319
	D	0	319	319
	T	0	637	637
10	L	0	26	26
	D	0	26	26
	T	0	52	52
11	L	0	0	0
	D	0	591	591
	T	0	591	591
12	L	0	72	72
	D	0	72	72
	T	0	144	144
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	176	12406	12582
	D	145	555	700
	T	321	12961	13282
15	L	0	661	661
	D	0	867	867
	T	0	1528	1528
TOTAL	L	5142	26983	32125
	D	1343	9687	11030
	T	6485	36667	43152

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ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 29 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1, 9	L	692	999	1691
	D	0	0	0
	T	692	999	1691
2	L	19	0	19
	D	15	0	15
	T	34	0	34
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	27889	0	27889
	D	43	0	43
	T	27932	0	27932
5	L	0	30	30
	D	0	30	30
	T	0	59	59
6	L	0	194	194
	D	0	153	153
	T	0	346	346
7	L	554	30	584
	D	0	30	30
	T	554	59	613
8	L	19	0	19
	D	15	19	34
	T	34	19	53
13, 17, 18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	117	117
	D	0	117	117
	T	0	233	233
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	157	0	157
	D	157	0	157
	T	313	0	313
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16, 19-20	L	85	9133	9218
	D	70	0	70
	T	155	9133	9288
15	L	0	130	130
	D	0	0	0
	T	0	130	130
TOTAL	L	29415	10633	40048
	D	300	349	649
	T	29714	10978	40692

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07/21/81                 ANNUAL THRUPUT CAPACITIES SUMMARY                         PAGE [redacted]
                        BY COMMODITY GROUP AND RIVER BANK
                           ( THOUSANDS OF SHORT TONS )

                                     POOL     30
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
 COMMODITY                     LEFT                RIGHT                 TOTAL
  GROUPS                       BANK                 BANK
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
       1,9  L                    0                  5057                  5057
            D                    0                   575                   575
            T                    0                  5632                  5632
         2  L                    0                     0                     0
            D                    0                     0                     0
            T                    0                     0                     0
         3  L                    0                     0                     0
            D                    0                     0                     0
            T                    0                     0                     0
         4  L                    0                  5429                  5429
            D                    0                  4470                  4470
            T                    0                  9899                  9899
         5  L                    0                   196                   196
            D                    0                     0                     0
            T                    0                   196                   196
         6  L                    0                   151                   151
            D                    0                     0                     0
            T                    0                   151                   151
         7  L                    0                     0                     0
            D                    0                     0                     0
            T                    0                     0                     0
         8  L                    0                    89                    89
            D                    0                    73                    73
            T                    0                   162                   162
  13,17,18  L                    0                    21                    21
            D                    0                    21                    21
            T                    0                    41                    41
        10  L                    0                     0                     0
            D                    0                     0                     0
            T                    0                     0                     0
        11  L                    0                  6352                  6352
            D                    0                  6352                  6352
            T                    0                 12703                 12703
        12  L                    0                     0                     0
            D                    0                     0                     0
            T                    0                     0                     0
        14  L                    0                     0                     0
            D                    0                     0                     0
            T                    0                     0                     0
15-16,19-20 L                    0                   406                   406
            D                    0                   335                   335
            T                    0                   741                   741
         6  L                    0                    61                    61
            D                    0                     0                     0
            T                    0                    61                    61
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
     TOTAL  L                    0                 17762                 17762
            D                    0                 11826                 11826
            T                    0                 29586                 29586
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ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 31 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1.9	L	0	0	0
	D	0	0	0
	T	0	0	0
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	8758	8758
	D	0	7212	7212
	T	0	15970	15970
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	0	0
	D	0	0	0
	T	0	0	0
7	L	0	0	0
	D	0	0	0
	T	0	0	0
8	L	0	0	0
	D	0	0	0
	T	0	0	0
13,17,18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	0	0	0
	D	0	0	0
	T	0	0	0
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	0	0	0
	D	0	0	0
	T	0	0	0
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	0	8758	8758
	D	0	7212	7212
	T	0	15970	15970

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ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 32

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1.9	L	0	0	0
	D	0	0	0
	T	0	0	0
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	0	0
	D	795	0	795
	T	795	0	795
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	923	0	923
	D	3844	0	3844
	T	4767	0	4767
7	L	0	0	0
	D	0	0	0
	T	0	0	0
8	L	0	0	0
	D	0	0	0
	T	0	0	0
13, 17, 18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	32	0	32
	D	32	0	32
	T	63	0	63
12	L	0	0	0
	D	0	0	0
	T	0	0	0
14	L	50	0	50
	D	50	0	50
	T	99	0	99
15-16, 19-20	L	0	0	0
	D	320	0	320
	T	320	0	320
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	1005	0	1005
	D	5041	0	5041
	T	6044	0	6044

ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 33 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1,9	L	0	0	0
	D	0	0	0
	T	0	0	0
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	4133	0	4133
	D	0	0	0
	T	4133	0	4133
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	0	0
	D	0	0	0
	T	0	0	0
7	L	0	0	0
	D	0	0	0
	T	0	0	0
8	L	0	0	0
	D	0	0	0
	T	0	0	0
13,17,18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	0	0	0
	D	0	0	0
	T	0	0	0
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	0	0	0
	D	0	0	0
	T	0	0	0
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	4133	0	4133
	D	0	0	0
	T	4133	0	4133

ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 34 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1, 9	L	0	314	314
	D	0	43	43
	T	0	357	357
2	L	0	278	278
	D	0	207	207
	T	0	485	485
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	1777	16917	18694
	D	1463	16185	17648
	T	3240	33102	36342
5	L	90	24	114
	D	90	160	250
	T	179	184	363
6	L	2629	1676	4305
	D	2692	3435	6127
	T	5316	5108	10424
7	L	1756	215	1971
	D	9418	2885	12303
	T	11165	3100	14265
8	L	327	411	738
	D	353	0	353
	T	679	411	1090
13, 17, 18	L	82	0	82
	D	82	0	82
	T	162	0	162
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	44	0	44
	D	44	0	44
	T	88	0	88
12	L	0	157	157
	D	0	157	157
	T	0	313	313
14	L	0	792	792
	D	0	792	792
	T	0	1581	1581
15-16, 19-20	L	952	2952	3904
	D	939	1726	2665
	T	1891	4677	6568
15	L	0	0	0
	D	306	0	306
	T	306	0	306
TOTAL	L	7657	23736	31393
	D	15387	25590	40977
	T	23026	49318	72344

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                                 BY COMMODITY GROUP AND RIVER BANK
                                     ( THOUSANDS OF SHORT TONS )

                                            POOL    35 .
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
  COMMODITY                         LEFT                      RIGHT                    TOTAL
   GROUPS                           BANK                      BANK
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
          1,9  L                      0                         56                       56
               D                      0                          0                        0
               T                      0                         56                       56
            2  L                      0                          0                        0
               D                      0                          0                        0
               T                      0                          0                        0
            3  L                      0                          0                        0
               D                      0                          0                        0
               T                      0                          0                        0
            4  L                      0                          0                        0
               D                      0                          0                        0
               T                      0                          0                        0
            5  L                      0                          0                        0
               D                      0                          0                        0
               T                      0                          0                        0
            6  L                      0                          0                        0
               D                      0                          0                        0
               T                      0                          0                        0
            7  L                      0                          0                        0
               D                      0                          0                        0
               T                      0                          0                        0
            8  L                      0                          0                        0
               D                      0                          0                        0
               T                      0                          0                        0
     13,17,18  L                      0                         29                       29
               D                      0                         29                       29
               T                      0                         57                       57
           10  L                      0                          0                        0
               D                      0                          0                        0
               T                      0                          0                        0
          11   L                      0                          0                        0
               D                      0                          0                        0
               T                      0                          0                        0
           12  L                      0                          0                        0
               D                      0                          0                        0
               T                      0                          0                        0
           14  L                      0                          0                        0
               D                      0                          0                        0
               T                      0                          0                        0
  15-16,19-20  L                      0                          0                        0
               D                      0                          0                        0
               T                      0                          0                        0
           15  L                      0                          0                        0
               D                      0                          0                        0
               T                      0                          0                        0
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
       TOTAL   L                      0                         85                       85
               D                      0                         29                       29
               T                      0                        113                      113
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ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

PAGE [redacted]

POOL 36

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1,9	L	0	0	0
	D	0	0	0
	T	0	0	0
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	688	0	688
	D	566	0	566
	T	1254	0	1254
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	2594	0	2594
	D	0	84	84
	T	2594	84	2678
7	L	0	0	0
	D	1578	101	1679
	T	1578	101	1679
8	L	0	0	0
	D	25	0	25
	T	25	0	25
13,17,18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	0	0	0
	D	0	0	0
	T	0	0	0
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	0	550	550
	D	105	0	105
	T	105	550	655
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	3282	550	3832
	D	2274	185	2459
	T	5556	735	6291

ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 37

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1,9	L	386	876	1262
	D	0	0	0
	T	386	876	1262
2	L	0	0	0
	D	0	85	85
	T	0	85	85
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	1604	1604
	D	0	752	752
	T	0	2356	2356
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	880	880
	D	839	514	1353
	T	839	1394	2233
7	L	43	1125	1168
	D	121	671	792
	T	163	1796	1959
8	L	86	27	113
	D	86	141	227
	T	171	168	339
13,17,18	L	0	115	115
	D	0	115	115
	T	0	229	229
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	0	86	86
	D	0	86	86
	T	0	171	171
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	280	108	388
	D	239	51	290
	T	518	159	677
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	795	4821	5616
	D	1285	2415	3700
	T	2077	7234	9311

ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 38 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1, 9	L	579	269	848
	D	0	8	8
	T	579	277	856
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	0	32	32
	D	0	32	32
	T	0	64	64
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	0	0
	D	0	0	0
	T	0	0	0
7	L	0	0	0
	D	0	81	81
	T	0	81	81
8	L	0	0	0
	D	0	0	0
	T	0	0	0
13, 17, 18	L	0	0	0
	D	0	0	0
	T	0	0	0
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	0	0	0
	D	0	0	0
	T	0	0	0
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16, 19-20	L	0	13	13
	D	0	13	13
	T	0	25	25
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	579	314	893
	D	0	134	134
	T	579	447	1026

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ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

PAGE

POOL 39 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1, 9	L	1841	6782	8623
	D	329	198	527
	T	2170	6980	9150
2	L	0	373	373
	D	0	455	455
	T	0	828	828
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	611	3150	3761
	D	503	2880	3383
	T	1114	6030	7144
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	0	345	345
	D	595	294	889
	T	595	639	1234
7	L	126	1965	2091
	D	109	1898	2007
	T	235	3863	4098
8	L	295	131	426
	D	66	157	223
	T	361	288	649
13, 17, 18	L	12	22	34
	D	12	22	34
	T	23	43	66
10	L	0	0	0
	D	0	0	0
	T	0	0	0
11	L	0	0	0
	D	0	5	5
	T	0	5	5
12	L	115	1175	1290
	D	115	1175	1290
	T	229	2349	2578
14	L	0	40	40
	D	0	40	40
	T	0	79	79
15-16, 19-20	L	0	2514	2514
	D	0	533	533
	T	0	3047	3047
15	L	0	0	0
	D	0	0	0
	T	0	0	0
TOTAL	L	3000	16497	19497
	D	1729	7657	9386
	T	4727	24151	28878

ANNUAL THRUPUT CAPACITIES SUMMARY
BY COMMODITY GROUP AND RIVER BANK
(THOUSANDS OF SHORT TONS)

POOL 40 .

COMMODITY GROUPS		LEFT BANK	RIGHT BANK	TOTAL
1,9	L	2485	558	3043
	D	0	0	0
	T	2485	558	3043
2	L	0	0	0
	D	0	0	0
	T	0	0	0
3	L	0	0	0
	D	0	0	0
	T	0	0	0
4	L	4896	1225	6121
	D	1557	135	1692
	T	6453	1360	7813
5	L	0	0	0
	D	0	0	0
	T	0	0	0
6	L	15	0	15
	D	160	471	631
	T	175	471	646
7	L	86	0	86
	D	163	1310	1473
	T	248	1310	1558
8	L	607	1722	2329
	D	32	2885	2917
	T	639	4607	5246
13,17,18	L	0	21	21
	D	0	21	21
	T	0	42	42
10	L	46	0	46
	D	46	0	46
	T	92	0	92
11	L	0	0	0
	D	0	0	0
	T	0	0	0
12	L	122	93	215
	D	122	93	215
	T	244	186	430
14	L	0	0	0
	D	0	0	0
	T	0	0	0
15-16,19-20	L	0	787	787
	D	499	301	800
	T	499	1088	1587
15	L	0	333	333
	D	0	227	227
	T	0	560	560
TOTAL	L	8257	4739	12996
	D	2579	5443	8022
	T	10835	10182	21017

9.4

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07/21/81                    ANNUAL THRUPUT CAPACITIES SUMMARY                                         PAGE [redacted]
                            BY COMMODITY GROUP AND RIVER BANK
                               ( THOUSANDS OF SHORT TONS )

                                        POOL     41 .
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
  COMMODITY                    LEFT                         RIGHT                        TOTAL
   GROUPS                      BANK                          BANK
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
          1,9  L               1876                          1624                         3500
               D                  0                           241                          241
               T               1876                          1865                         3741
            2  L                  0                             0                            0
               D                  0                             0                            0
               T                  0                             0                            0
            3  L                  0                             0                            0
               D                  0                             0                            0
               T                  0                             0                            0
            4  L               1393                           134                         1527
               D               2858                           248                         3106
               T               4251                           382                         4633
            5  L                  0                             0                            0
               D                  0                             0                            0
               T                  0                             0                            0
            6  L                  0                             0                            0
               D                132                           196                          328
               T                132                           196                          328
            7  L                  0                             0                            0
               D                  0                           150                          150
               T                  0                           150                          150
            8  L                122                             0                          122
               D                132                            22                          154
               T                254                            22                          276
     13,17,18  L                  0                             0                            0
               D                  0                             0                            0
               T                  0                             0                            0
           10  L                  0                           113                          113
               D                  0                           113                          113
               T                  0                           225                          225
           11  L                  0                             0                            0
               D                  0                             0                            0
               T                  0                             0                            0
           12  L                548                             0                          548
               D                548                             0                          548
               T               1095                             0                         1095
           14  L                  0                             0                            0
               D                  0                             0                            0
               T                  0                             0                            0
  15-16,19-20  L                561                             6                          567
               D                461                           106                          567
               T               1022                           112                         1134
           15  L                  0                             0                            0
               D                  0                             0                            0
               T                  0                             0                            0
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        TOTAL  L               4500                          1877                         6377
               D               4131                          1076                         5207
               T               8630                          2952                        11582
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07/21/81                      ANNUAL THRUPUT CAPACITIES SUMMARY                                    PAGE  [redacted]
                              BY COMMODITY GROUP AND RIVER BANK
                                 ( THOUSANDS OF SHORT TONS )

                                          ALL POOLS
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
  COMMODITY                          LEFT                    RIGHT                    TOTAL
   GROUPS                            BANK                     BANK
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
       TOTAL     L                 122480                   158595                   281075
                 D                  75846                   116908                   192754
                 T                 198284                   275455                   473739
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APPENDIX C

RIVER POOL TERMINAL CAPACITY

TABLE- C 1

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL (short tons)

RIVER POOL - 1

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	2,396,000	641,892	1,074,050	1,485,904
Metallic Ores	1,198,000	11,925	14,846	16,563
Coal	1,694,000	1,155,977	2,355,903	3,087,166
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	2,713,000	761,736	636,495	590,612
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	9,237	10,244	10,224
Chemicals	70,000	15,817	25,810	39,397
Petroleum & Coal Products	1,294,000	97,886	94,640	95,044
Primary Metal Products	2,164,000	80,030	100,655	116,704
Waste & Scrap	323,000	19,141	19,141	19,141
Other Commodities	-	12,152	14,360	16,586
TOTALS	11,852,000	2,805,793	4,346,144	5,477,341

TABLE- C 2

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 2

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	22,000,000	4,415,920	7,469,852	10,411,583
Metallic Ores	19,000	1,356	1,688	1,883
Coal	15,033,000	1,329,643	2,677,815	3,503,925
Crude Petroleum	3,015,000	596,695	537,530	532,180
Sand, Gravel and other Non-metallic Minerals	8,678,000	399,374	299,877	262,684
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	930	1,265	2,537
Chemicals	14,577,000	799,072	1,299,581	1,980,422
Petroleum & Coal Products	29,648,000	1,054,717	1,000,921	990,617
Primary Metal Products	2,429,000	119,914	148,071	170,296
Waste & Scrap	1,483,000	2,922	2,723	2,614
Other Commodities	41,000	**327,646**	**337,571**	**348,621**
TOTALS	96,923,000	9,048,189	13,776,894	18,207,362

TABLE- C 3

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL (short tons)

RIVER POOL - 3

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	-	-	-	-
Metallic Ores	-	-	-	-
Coal	15,970,000	1,335,769	2,679,249	3,531,830
Crude Petroleum	466,000	-	-	-
Sand, Gravel and other Non-metallic Minerals	-	-	-	-
Lumber & Wood Products/Pulp,Paper,& Allied Products	-	-	-	-
Chemicals	1,520,000	5,244	8,514	12,973
Petroleum & Coal Products	356,000	22,936	22,346	22,571
Primary Metal Products	-	-	-	-
Waste & Scrap	-	-	-	-
Other Commodities	-	-	-	-
TOTALS	18,312,000	1,363,949	2,710,109	3,567,374

TABLE- C 4

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 4

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	881,000	320,898	552,993	769,270
Metallic Ores	-	-	-	-
Coal	294,000	18,181	36,466	48,065
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	111,000	1,375	1,002	906
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	-	-	-	-
Petroleum & Coal Products	-	-	-	-
Primary Metal Products	111,000	49,460	59,658	68,104
Waste & Scrap	22,000	-	-	-
Other Commodities	-	-	-	-
TOTALS	1,419,000	389,914	650,119	886,345

TABLE- C 5

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 5

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	-	-	-	-
Metallic Ores	-	-	-	-
Coal	4,121,000	478,642	962,799	1,249,431
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	-	-	-	-
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	-	-	-	-
Petroleum & Coal Products	-	-	-	-
Primary Metal Products	-	-	-	-
Waste & Scrap	-	-	-	-
Other Commodities	-	-	-	-
TOTALS	4,121,000	478,642	962,799	1,249,431

TABLE- C 6

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 5A

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	-	-	-	-
Metallic Ores	-	-	-	-
Coal	-	-	-	-
Crude Petroleum	-	-	-	-
Sand, Gravel and orther Non-metallic Minerals	-	-	-	-
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	-	-	-	-
Petroleum & Coal Products	-	-	-	-
Primary Metal Products	-	-	-	-
Waste & Scrap	-	-	-	-
Other Commodities	-	-	-	-
TOTALS	-	-	-	-

TABLE- C 7

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 6

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	1,304,000	476,373	828,113	1,170,986
Metallic Ores	-	-	-	-
Coal	663,000	73,967	149,079	184,933
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	95,000	18,260	13,313	12,042
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	1,405,000	81,722	132,964	202,575
Petroleum & Coal Products	1,293,000	59,934	58,394	58,980
Primary Metal Products	-	2,499	3,232	3,788
Waste & Scrap	99,000	-	-	-
Other Commodities	-	2,966	3,023	3,115
TOTALS	4,859,000	715,721	1,188,118	1,636,419

TABLE- C 8

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 7

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	-	-	-	-
Metallic Ores	-	-	-	-
Coal	-	-	-	-
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	-	-	-	-
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	-	-	-	-
Petroleum & Coal Products	-	-	-	-
Primary Metal Products	-	-	-	-
Waste & Scrap	-	-	-	-
Other Commodities	-	-	-	-
TOTALS	-	-	-	-

TABLE- C 9

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL (short tons)

RIVER POOL - 8

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	315,000	112,778	194,947	247,993
Metallic Ores	-	-	-	-
Coal	850,000	74,141	148,954	194,578
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	779,000	53,125	58,791	59,965
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	55,000	1,409	2,288	3,485
Petroleum & Coal Products	4,767,000	-	-	-
Primary Metal Products	-	-	-	-
Waste & Scrap	99,000	-	-	-
Other Commodities	-	-	-	-
TOTALS	6,865,000	241,453	404,980	506,021

TABLE- C 10

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 9

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	-	-	-	-
Metallic Ores	-	-	-	-
Coal	5,991,000	1,537,157	3,089,745	4,025,799
Crude Petroleum	-	-	-	-
Sand, Garvel and other Non-metallic Minerals	-	-	-	-
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	-	1,082	1,757	2,676
Petroleum & Coal Products	-	-	-	-
Primary Metal Products	-	-	-	-
Waste & Scrap	-	-	-	-
Other Commodities	-	-	-	-
TOTALS	5,991,000	1,538,239	3,091,502	4,028,475

TABLE- C 11

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 10

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	2,187,000	646,274	1,117,151	1,575,854
Metallic Ores	-	-	-	-
Coal	122,000	-	-	-
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	303,000	24,781	18,070	16,342
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	56,000	6,885	11,179	17,032
Petroleum & Coal Products	-	-	-	-
Primary Metal Products	-	13,582	17,569	20,592
Waste & Scrap	-	-	-	-
Other Commodities	-	-	-	-
TOTALS	2,668,000	691,522	1,163,969	1,629,820

TABLE- C 12

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 11

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	-	-	-	-
Metallic Ores	-	-	-	-
Coal	1,262,000	641,642	**1,287,135**	**1,695,444**
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	-	95	72	61
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	373,000	-	-	-
Petroleum & Coal Products	-	-	-	-
Primary Metal Products	-	39,574	41,681	43,813
Waste & Scrap	-	-	-	-
Other Commodities	-	8,435	13,697	18,951
TOTALS	1,635,000	689,746	1,342,585	**1,758,269**

TABLE- C 13

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL -12

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	1,404,000	646,257	1,098,980	**1,527,656**
Metallic Ores	-	-	-	-
Coal	493,000	379,070	**761,617**	**994,671**
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	4,039,000	80,409	58,634	53,027
Lumber & Wood Products/Pulp,Paper,& Allied Products	87,000	-	-	-
Chemicals	4,518,000	218,512	355,346	504,039
Petroleum & Coal Products	1,876,000	166,000	161,735	163,359
Primary Metal Products	231,000	-	-	-
Waste & Scrap	-	-	-	-
Other Commodities	96,000	2,948	2,993	3,083
TOTALS	12,744,000	1,493,196	2,439,305	3,245,835

TABLE- C 14

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 13

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	-	76,235	81,697	85,010
Metallic Ores	-	-	-	-
Coal	-	-	-	-
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	-	-	-	-
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	-	10,000	16,239	24,740
Petroleum & Coal Products	-	-	-	-
Primary Metal Products	-	-	-	-
Waste & Scrap	-	-	-	-
Other Commodities	-	1,740	1,762	1,814
TOTALS	-	87,975	99,698	111,564

TABLE- C 15

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 14

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	1,447,000	992,333	**1,665,064**	**2,317,364**
Metallic Ores	-	-	-	-
Coal	1,886,000	599,426	1,205,441	1,575,572
Crude Petroleum	-	1,332	1,264	1,355
Sand, Gravel and other Non-metallic Minerals	1,301,000	446,021	329,338	289,465
Lumber & Wood Products/Pulp, Paper, & Allied Products	25,000	-	-	-
Chemicals	2,262,000	369,909	603,794	919,804
Petroleum & Coal Products	1,352,000	8,030	8,030	8,192
Primary Metal Products	65,000	5,398	6,908	8,061
Waste & Scrap	-	-	-	-
Other Commodities	15,000	1,800	1,903	1,995
TOTALS	8,353,000	2,424,249	3,821,742	5,122,308

TABLE- C 16

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 15

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	270,000	**334,716**	**444,008**	**543,823**
Metallic Ores	-	-	-	-
Coal	-	19,265	38,932	49,233
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	1,696,000	571,640	489,359	457,476
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	-	15,785	26,233	39,052
Petroleum & Coal Products	7,791,000	777,252	754,974	761,486
Primary Metal Products	-	6,232	8,061	9,448
Waste & Scrap	536,000	7,496	8,443	8,443
Other Commodities	-	-	-	-
TOTALS	10,293,000	1,732,386	1,770,010	1,868,961

[redacted]

TABLE- C 17

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 16

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	3,349,000	1,327,710	2,204,183	3,036,987
Metallic Ores	-	-	-	-
Coal	2,069,000	218,211	440,284	561,796
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	1,402,000	222,916	188,934	180,633
Lumber & Wood Products/Pulp, Paper, & Allied Products	696,000	10,222	16,715	17,672
Chemicals	1,180,000	75,081	122,284	185,944
Petroleum & Coal Products	1,041,000	251,017	243,412	245,504
Primary Metal Products	99,000	11,875	15,112	17,581
Waste & Scrap	-	305	305	305
Other Commodities	-	3,732	3,790	3,883
TOTALS	9,836,000	2,121,069	3,235,019	4,250,305

TABLE- C 18

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 17

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	615,000	543,311	879,704	1,241,999
Metallic Ores	-	-	-	-
Coal	618,000	104,731	211,360	269,382
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	260,000	11,885	8,782	7,705
Lumber & Wood Products/Pulp,Paper,& Allied Products	-	-	-	-
Chemicals	1,219,000	79,349	129,065	196,632
Petroleum & Coal Products	-	-	-	-
Primary Metal Products	-	-	-	-
Waste & Scrap	-	-	-	-
Other Commodities	-	9,400	9,648	9,940
TOTALS	2,712,000	748,676	1,238,559	1,725,658

TABLE- C 18

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 18

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	717,000	625,820	1,061,167	1,448,314
Metallic Ores	-	-	-	-
Coal	-	-	-	-
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	-	2,550	1,868	1,670
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	-	-	-	-
Petroleum & Coal Products	-	-	-	-
Primary Metal Products	-	-	-	-
Waste & Scrap	-	-	-	-
Other Commodities	-	2,710	2,781	2,838
TOTALS	717,000	631,080	1,065,816	1,452,822

TABLE- C 20

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 19

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	2,810,000	1,405,810	2,369,914	**3,207,009**
Metallic Ores	-	1,389	1,729	1,948
Coal	932,000	6,858	13,890	17,344
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	1,670,000	91,924	67,030	60,621
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	4,799	5,322	5,322
Chemicals	4,676,000	199,584	192,716	288,540
Petroleum & Coal Products	90,000	61,330	59,753	60,353
Primary Metal Products	314,000	1,015	1,069	1,123
Waste & Scrap	-	-	-	-
Other Commodities	587,000	358	362	371
TOTALS	11,079,000	1,773,067	2,711,785	3,642,631

TABLE- C 21

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 20

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	1,341,000	129,916	227,003	322,405
Metallic Ores	70,000	4,270	5,316	9,885
Coal	-	21,046	42,496	53,967
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	-	2,929	2,134	1,931
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	-	6,721	10,854	16,628
Petroleum & Coal Products	-	7,752	7,262	7,119
Primary Metal Products	76,000	10,372	12,094	13,473
Waste & Scrap	-	-	-	-
Other Commodities	17,000	1,200	1,215	1,252
TOTALS	1,504,000	184,206	308,374	426,660

TABLE- C 22

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 21

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	554,000	633,952	1,087,353	1,505,944
Metallic Ores	-	12,487	15,546	17,516
Coal	-	-	-	-
Crude Petroleum	54,000	-	-	-
Sand, Gravel and other Non-metallic Minerals	394,000	6,217	4,533	4,099
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	394,000	23,350	37,920	57,773
Petroleum & Coal Products	1,607,000	254,296	247,440	249,685
Primary Metal Products	-	11,491	14,470	16,765
Waste & Scrap	-	-	-	-
Other Commodities	-	-	-	-
TOTALS	3,003,000	941,793	1,407,262	1,851,782

[redacted]

TABLE- C 23

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 22

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	1,154,000	142,668	245,627	344,231
Metallic Ores	-	-	-	-
Coal	318,000	4,336	8,771	11,025
Crude Petroleum	120,000	-	-	-
Sand, Gravel and other Non-metallic Minerals	6,313,000	402,055	527,739	583,498
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	176,000	58,838	95,546	145,564
Petroleum & Coal Products	-	16,770	15,639	15,386
Primary Metal Products	-	270	349	409
Waste & Scrap	-	4,578	4,578	4,578
Other Commodities	-	221	223	230
TOTALS	8,081,000	629,736	898,472	1,104,921

TABLE- C 24

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 24

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	-	198,506	336,030	453,242
Metallic Ores	-	-	-	-
Coal	-	161,539	313,930	400,924
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	-	952,957	1,213,103	1,311,666
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	425,000	125,882	199,844	289,791
Petroleum & Coal Products	-	-	-	-
Primary Metal Products	-	2,994	3,873	4,539
Waste & Scrap	-	-	-	-
Other Commodities	-	-	-	-
TOTALS	425,000	**1,441,878**	**2,066,780**	**2,460,162**

TABLE- C 25

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 25

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	-	70,000	121,002	170,685
Metallic Ores	-	-	-	-
Coal	-	-	-	-
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	-	-	-	-
Lumber & Wood Products/Pulp,Paper,& Allied Products	-	-	-	-
Chemicals	-	116,209	191,109	291,128
Petroleum & Coal Products	-	-	-	-
Primary Metal Products	-	-	-	-
Waste & Scrap	-	-	-	-
Other Commodities	-	86,500	88,758	91,456
TOTALS	-	272,709	400,869	553,269

TABLE- C 26

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 26

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	6,305,000	2,579,786	3,749,680	5,280,835
Metallic Ores	-	9,050	16,467	20,443
Coal	4,633,000	1,088,440	1,922,846	2,412,617
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	2,943,000	13,046	11,088	12,052
Lumber & Wood Products/Pulp, Paper, & Allied Products	225,000	16,000	17,517	18,413
Chemicals	563,000	136,419	216,076	302,211
Petroleum & Coal Products	328,000	**1,102,127**	**950,079**	**925,323**
Primary Metal Products	1,845,000	453,600	581,501	679,395
Waste & Scrap	-	128,533	150,884	137,704
Other Commodities	-	68,511	52,934	33,509
TOTALS	16,842,000	5,595,512	7,669,072	9,822,502

TABLE- C 27

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - 27

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	3,000,000	2,700,547	**3,281,182**	**3,943,533**
Metallic Ores	-	723	900	1,014
Coal	1,227,000	248,499	441,891	556,584
Crude Petroleum	1,763,000	13,761	13,061	14,005
Sand, Gravel and other Non-metallic Minerals	1,103,000	133,147	101,558	89,501
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	13,124	20,001	20,900
Chemicals	105,000	**646,113**	**1,064,758**	**1,637,998**
Petroleum & Coal Products	11,814,000	4,736,040	4,642,924	4,735,445
Primary Metal Products	477,000	394,128	**498,424**	**578,873**
Waste & Scrap	114,000	19,571	27,803	27,634
Other Commodities	-	396,713	505,876	608,323
TOTALS	19,603,000	9,302,366	10,598,378	12,213,810

TABLE- C 28

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - Lockport

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	2,279,000	1,808,547	2,234,414	2,970,815
Metallic Ores	485,000	7,727	14,364	17,904
Coal	36,342,000	5,095,860	8,813,509	10,648,123
Crude Petroleum	363,000	128,535	115,789	114,804
Sand, Gravel and other Non-metallic Minerals	6,874,000	4,663,432	4,236,252	4,134,877
Lumber & Wood Products/Pulp,Paper,& Allied Products	-	102,746	124,445	144,879
Chemicals	15,355,000	3,159,248	4,923,168	6,834,279
Petroleum & Coal Products	10,424,000	2,713,523	2,385,420	2,371,350
Primary Metal Products	313,000	2,499,445	3,058,980	3,498,711
Waste & Scrap	1,581,000	321,381	246,212	209,428
Other Commodities	162,000	182,147	296,200	427,816
TOTALS	74,178,000	20,682,591	26,448,753	31,372,986

TABLE- C 29

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL (short tons)

RIVER POOL - Brandon Road

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	772,000	493,587	583,700	754,596
Metallic Ores	-	-	-	-
Coal	-	99,827	172,619	208,482
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	-	419,270	326,733	289,537
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	4,287	4,942	5,623
Chemicals	-	340,517	539,223	753,310
Petroleum & Coal Products	-	484,154	413,572	393,392
Primary Metal Products	-	30,969	39,424	45,687
Waste & Scrap	-	-	-	-
Other Commodities	57,000	**185,612**	**301,418**	**417,036**
TOTALS	829,000	**2,058,223**	**2,381,631**	**2,867,663**

TABLE- C 30

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - Dresden Island

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	-	42,586	47,223	52,174
Metallic Ores	-	-	-	-
Coal	1,254,000	121,015	208,165	251,406
Crude Petroleum	-	12,318	10,529	10,529
Sand, Gravel and other Non-metallic Minerals	655,000	449,459	352,095	315,746
Lumber & Wood Products/Pulp,Paper,& Allied Products	-	-	-	-
Chemicals	1,704,000	363,577	575,815	804,918
Petroleum & Coal Products	2,678,000	1,502,777	1,281,213	1,216,314
Primary Metal Products	-	1,147	1,339	1,509
Waste & Scrap	-	1,350	1,169	1,057
Other Commodities	-	320,169	521,324	724,294
TOTALS	6,291,000	2,814,398	2,998,882	3,377,947

TABLE- C 31

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - Marseilles

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	4,432,000	1,783,926	2,260,809	3,214,685
Metallic Ores	85,000	600	1,203	1,525
Coal	2,356,000	113,851	195,161	232,353
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	6,043,000	2,044,989	1,585,840	1,404,120
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	850	979	1,115
Chemicals	2,298,000	338,566	533,401	742,775
Petroleum & Coal Products	2,233,000	495,889	425,262	410,907
Primary Metal Products	171,000	14,289	18,249	21,178
Waste & Scrap	-	-	-	-
Other Commodities	229,000	500	811	1,123
TOTALS	17,847,000	4,793,460	5,021,715	6,029,781

TABLE- C 32

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - Starved Rock

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	3,034,000	1,274,082	1,648,158	2,370,209
Metallic Ores	-	-	-	-
Coal	64,000	**170,754**	**295,721**	**358,053**
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	25,000	**314,994**	**245,968**	**218,248**
Lumber & Wood Products/Pulp, Paper, & Allied Products	-	-	-	-
Chemicals	81,000	19,579	30,867	43,036
Petroleum & Coal Products	-	-	-	-
Primary Metal Products	-	-	-	-
Waste & Scrap	-	-	-	-
Other Commodities	-	1,615	2,622	3,628
TOTALS	3,204,000	1,781,024	2,223,336	2,993,174

TABLE- C 33

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - Peoria

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	18,591,000	5,347,413	6,902,180	9,859,554
Metallic Ores	828,000	-	-	-
Coal	7,144,000	994,847	1,776,321	2,256,006
Crude Petroleum	-	-	-	-
Sand, Gravel and other NonOmetallic Minerals	3,047,000	423,032	365,562	345,226
Lumber & Wood Products/Pulp,Paper,& Allied Products	-	-	-	-
Chemicals	4,747,000	227,784	439,796	614,320
Petroleum & Coal Products	1,234,000	**1,360,651**	1,168,307	1,173,672
Primary Metal Products	2,578,000	164,782	208,620	240,429
Waste & Scrap	79,000	31,960	23,422	19,596
Other Commodities	66,000	12,943	21,181	29,307
TOTALS	38,314,000	8,563,412	10,905,389	14,538,110

TABLE- C 34

COMPARISION OF TERMINAL CAPACITY AND COMMODITY MOVEMENT BY RIVER POOL
(short tons)

RIVER POOL - La Grange

COE COMMODITY PROJECTION GROUP	TERMINAL CAPACITY	COMMODITY FLOW DATA		
		1977	1990	2000
Farm Products/Food & Kindred Products	9,032,000	4,030,918	5,217,449	7,494,933
Metallic Ores	-	-	-	-
Coal	7,813,000	4,349,216	7,501,675	9,053,445
Crude Petroleum	-	-	-	-
Sand, Gravel and other Non-metallic Minerals	2,147,000	99,216	97,902	99,961
Lumber & Wood Products/Pulp, Paper, & Allied Products	92,000	2,027	2,336	2,658
Chemicals	6,804,000	679,527	1,068,174	1,492,348
Petroleum & Coal Products	646,000	673,596	600,995	615,370
Primary Metal Products	430,000	383,026	470,124	537,349
Waste & Scrap	-	82,207	39,861	36,096
Other Commodities	42,000	6,908	11,217	15,521
TOTALS	27,006,000	10,306,641	15,009,733	19,347,681